

INDEX.

VOL. VI. Experimental Wireless & The Wireless Engineer. 1929.

I. GENERAL INDEX.

	PAGE
A bstracts and References (<i>see separate Index</i>), 38, 97, 144, 202, 262, 321, 385	85
440, 500, 565, 623	
Accumulators, Testing (<i>Patents</i>)	290
A.C. Filament Supply (<i>Patents</i>)	229
Aerials, Beam (<i>Patents</i>)	529, 530
Aerials, Directional, French Short-wave, H. Chireix	235
Aerials, Directive (<i>Patents</i>)	526
Aerials, Transmitting (<i>Editorial</i>)	59
Aerials, Transmitting, Design of Broadcasting Station (<i>I.E.E. Paper</i>), P. P. Eckersley, T. L. Eckersley, and H. L. Kirke	86
Algebraic Representation of Triode Valve Characteristics, W. A. Barclay	178
Alignment Valve Characteristics (<i>Correspondence</i>)	96, 140
Allocation of Wavelengths to European Broadcasting Stations (<i>Correspondence</i>)	140
Amplification-Factor of Tetrodes, Measurement of, W. Jackson	252
Amplification, L.F., with Transformers, P. R. Dijksterhuis and Y. B. F. J. Groeneveld	374
Amplification, Push-Pull, F. Aughtie	307
(<i>Correspondence</i>)	437
Amplifier, Acoustic (<i>Patents</i>)	682
Amplifier, All-Main (<i>Patents</i>)	530
Amplifiers, Actino-Thermionic (<i>Patents</i>)	682
Amplifiers L.F. (<i>Patents</i>)	350, 467, 529
Amplifiers, "Band," Selective (<i>Patents</i>)	654
Amplifiers, Thermionic, Output Characteristics, B. C. Brain	119
Anode-Grid Capacity, Effect in Anode - Bend Rectifiers, E. A. Biedermann	71, 135
(<i>Correspondence</i>)	93, 199, 260
Aperiodic H.F. Amplification, Receiver with, M. von Ardenne	369
Attenuation of Wireless Waves over Towns (<i>I.E.E. Paper</i>), R. H. Barfield and G. H. Munro	31
Aurora Borealis, R.F. Phenomena Associated with, F. Dearlove	193
B andoeng Receiving Station (<i>Illustration</i>)	61
Barkhausen, Prof. H. (<i>Portrait</i>)	76
Biassing Power-Amplifiers (<i>Patents</i>)	56
Book REVIEWS :	
Hochfrequenz-Messtechnik, A. Hund	22
Mathematics for Engineers, Part I, W. N. Rose	22
Wireless Observations during the Eclipse of the Sun (Radio Research Board)	22
Die Ausbreitung der Elektromagnetschen Wellen, A. Sacklowski	140
Données Numériques de Radioélectricité, R. Mesny	183
Mehrfaströhren empfänger, M. von Ardenne	244
Interference by Transmission from Radio Stations (Radio Research Board)	320
The Physical Principles of Wireless, J. A. Ratcliffe	320
Streifzüge durch die Empfangstechnik, M. von Ardenne	320
H.F. Stabilisation by Piezo-Electric Oscillators, A. Hilger, Ltd.	439
Der Bau von Anoden, M. von Ardenne	497
Speech and Hearing, H. Fletcher	668
Books RECEIVED :	
Telegraphy and Telephony, including Wireless, E. Mallett	668
Brain, B. C. (<i>Obituary Notice</i>)	118
Broadcast Frequencies, Allocation of (<i>Editorial</i>)	1
Broadcast Recording (<i>Patents</i>)	683
Broadcast Wavelength, Allocation to European Stations (<i>Correspondence</i>)	140
Broadcast Wavelengths, Problems of International Distribution	3
(<i>Correspondence</i>)	95
Broadcasting Stations, Measurement of Wavelengths, R. Braillard and E. Divoire	412
(<i>Correspondence</i>)	498
Broadcasting Stations, Operation of several on same Wavelength, P. P. Eckersley and A. B. Howe (<i>I.E.E. Paper</i>)	196
Broadcasting on Ultra-Short Waves, B. Van der Pol	9
Brookmans Park Station	542
C alibration Permanence and Accuracy of Series-gap Air Condenser, W. H. F. Griffiths	23, 77
Capacity of Dry Electrolytic Condensers, P. R. Coursey	128
Capacity, Grid-Anode of Screen-Grid Valves, N. R. Bligh	299
Cathodes, Coated (<i>Patents</i>)	467
Circular Motions, Super-position of, T. S. Rangachari	184
Combination Sets (<i>Patents</i>)	654
Condenser Series-gap, Air, Calibration Permanence and Accuracy of, W. H. F. Griffiths	23, 77
Condensers, Comparison of Power Factors, R. M. Wilmette	656

PAGE	PAGE		
Condensers, Dry Electrolytic, Capacity of, P. R. Coursey	128	Filaments, High-Emission (<i>Patents</i>)	526
Condensers, Electrolytic (<i>Patents</i>)	682	Formula for Induction of Single-turn Circuits, V. I. Bashenoff	245
Constant-Coupling Receivers (<i>Patents</i>)	469	Frame Aerials (<i>Patents</i>)	408
Constant-frequency Oscillators (<i>Patents</i>)	57	French System of Directional Aerials for Short Waves, H. Chireix	235
CORRESPONDENCE, 37, 93, 139, 199, 260, 319, 384, 437, 498, 549, 621, 676		Frequency Departure of Thermionic Oscillator from "LC" Value, Lieut. S. W. C. Pack	
Criticism invited for New Volume	595		472, 554
D emodulation (Apparent) of a Weak Station by a Stronger One, S. Butter- worth	619	Frequency, Effect in the Value of Resistances (Correspondence)	37, 96
Design of Transmitting Aerials for Broad- casting Stations (<i>I.E.E. Paper</i>), P. P. Eckersley, T. L. Eckersley, and H. L. Kirke	86	Frequency Modulation (<i>Patents</i>)	407, 409, 410
Detector Circuits (<i>Patents</i>)	348	Frequency Modulation, Signalling by (<i>Patents</i>) ..	170
Diaphragm Vibrating, Does it carry a Mass of Air with it? (<i>Editorial</i>)	117	Frequency-Output Characteristics, Apparatus for Projection of, C. G. Garton and G. S. Lucas	549
Direction Finding (<i>Patents</i>)	54, 408, 527,	Frequency Stabilisers (<i>Patents</i>)	62
Directional Aerials (<i>Patents</i>)	410, 468,		55
Discharge Tubes, Gas-filled (<i>Patents</i>)	290		
Distances, Measuring by Radio (<i>Patents</i>)	528		
Distortion in Anode Rectification, Reduction of, A. G. Warren	425		
"Dovetailed" Wireless Transmission (<i>Patents</i>)	498		
"Dovetailed" Wireless Transmission (<i>Patents</i>)	230		
E arth, Effect on Short-wave Radiation (<i>Editorial</i>)	351	G ain-Regulation, Automatic (<i>Patents</i>)	410
EDITORIALS :		Gas-filled Rectifying Valves (<i>Editorial</i>) ..	291
The Allocation of Broadcast Frequencies ..	1	Generators, High-Powered H.F. (<i>Patents</i>) ..	289
Transmitting Aerials	59	Gramophone Pick-ups (<i>Patents</i>), 289, 407, 409, 468, 651, 653, 681	
Does a Vibrating Diaphragm carry a Mass of Air with it?	117	Grid Rectification for Small Signal Amplitudes, W. A. Barclay	596
Sound Waves Radiated from Loud-speaker Diaphragms	175	Ground, Effect on Downcoming Plane Space- waves, E. T. Glas	663
Positive and Negative, Mutual Inductance			
Gas-filled Rectifying Valves	233		
Effect of the Earth on Short-wave Radiation			
Definition of Selectivity	351		
The Marconi Licensing Settlement	411		
The Radio Exhibition at Olympia	471		
The Definition of Selectivity	531		
The Losses in Air Condensers	595		
Electrolytic Rectifiers (<i>Patents</i>)	655		
Exhibition, Physical Society, 1929	469		
Exhibition, Physical and Optical Societies for 1930	81		
Exhibition, Radio, at Olympia (<i>Editorial</i>)	601		
Experimental Transmitting and Receiving Apparatus for Ultra-Short Waves, R. L. Smith-Rose and J. S. McPetrie	532, 605		
(Correspondence)	676		
Exponential Horns (<i>Patents</i>)	288		
F acsimile Picture Reception (<i>Illustration</i>) ..	92	H eterodyne Reception (<i>Patents</i>)	173
Facsimile Picture Transmission (<i>Illus- tration</i>)	127	H.F. Resistance of Toroidal Coils, S. Butterworth	13
Fading, Compensating for (<i>Patents</i>)	652	High-Power Keying (<i>Patents</i>)	171
Fading, Preventing (<i>Patents</i>)	290, 408		
Ferranti Multi-Range Test Set	8		
Filament, Oxide-coated, Development of (<i>I.E.E. Paper</i>), B. Hodgson, L. S. Hartley, and O. S. Pratt	141	I mpedances, Mechanical, Measuring (<i>Patents</i>)	683
		Inductance, Mutual, Positive and Negative (<i>Editorial</i>)	233
		Inductance of Single-turn Circuits, Formula, V. I. Bashenoff	245
		Inductances, Standard, for Wavemeters, etc. W. H. F. Griffiths	543
		I NSTITUTION OF ELECTRICAL ENGINEERS, <i>Papers read</i> :	
		Attenuation of Wireless Waves over Towns, Barfield and Munro	31
		Design of Transmitting Aerials for Broad- casting Stations, P. P. and T. L. Eckersley and H. L. Kirke	86
		Development of the Oxide-coated Filament, B. Hodgson, L. S. Hartley, and O. S. Pratt	141
		Operation of Several Broadcasting Stations on the same Wavelength, P. P. Eckersley and A. B. Howe	196
		Investigation of Short Waves, T. Eckersley ..	255
		Portable Radio Intensity-Measuring Appa- ratus, H.F., J. Hollingworth and R. Naismith	316
		Wireless Progress of the Past Two Years, Capt. C. E. Kennedy Purvis, R.N. ..	675
		Interference, Preventing (<i>Patents</i>)	171, 529
		K eying, High-power (<i>Patents</i>)	171

PAGE	PAGE
L . F. Amplification with Transformers, P. R. Dijksterhuis and Y. B. F. J. Groeneweld .. 374 (Correspondence) .. 553	95
Light-sensitive Cells (<i>Patents</i>) .. 682	3
Losses in Air Condensers (<i>Editorial</i>) .. 655	
Loud Speaker Circuits, Electrostatic (<i>Patents</i>) 527	
Loud Speaker Diaphragms (<i>Patents</i>), 350, 407, 409, 410, 470	
Loud Speaker Diaphragms, Sound Waves Radiated from (<i>Editorial</i>) .. 175	
Loud Speaker Filter Circuits (<i>Patents</i>) .. 528	
Loud Speaker Horns (<i>Patents</i>) .. 350	
Loud Speaker Movements (<i>Patents</i>) .. 681	
Loud Speaker, Moving-Coil, H. M. Clarke 380, 602	
Loud Speakers (<i>Patents</i>), 173, 229, 288, 349, 350, 407, 409, 410, 467, 526, 527, 530, 591, 651, 680, 683	
Loud Speakers, Electrostatic (<i>Patents</i>) .. 651	
Loud Speakers, Moving Coil, C. R. Cossens .. 353 (Correspondence) .. 438, 621, 678	
M ains-fed Valve (<i>Patents</i>) .. 56	
Mains Supply Units (<i>Patents</i>), 174, 409, 469	
Marconi Appeals .. 368	
Marconi Co., and Licensees .. 485	
Marconi Licensing Settlement (<i>Editorial</i>) .. 471	
Measurements of Grid-Anode Capacity of S-G. Valves, N. R. Bligh .. 299	
Microphones (<i>Patents</i>) .. 679	
Modulating Systems (<i>Patents</i>) .. 348	
Moving Coil Loud Speaker, H. M. Clarke, 380, 602	
Moving Coil Loud Speakers, C. R. Cossens .. 353 (Correspondence) .. 438, 621, 678	
Multiple Valves (<i>Patents</i>) .. 290	
Multiplex Signalling Systems (<i>Patents</i>) .. 410	
N agoya Wireless Station, Base of Mast and Station Buildings (<i>Illustrations</i>) 309, 678	
Noise in Supply Mains, Minimising (<i>Patents</i>) .. 591	
O scillators, Constant-frequency (<i>Patents</i>) .. 57	
Oscillators, Magnetostrictive (<i>Patents</i>) .. 469	
Oscillators, Quartz (<i>Patents</i>) .. 57	
Oscillators, Valve (<i>Patents</i>) .. 468, 530	
Output Characteristics of Thermionic Amplifiers, B. C. Brain .. 119 (Correspondence) .. 199	
P atent Decision, Lektophone Corporation v. S. G. Brown, Ltd. (Hopkins Patent) .. 174	
PATENTS, 54, 170, 229, 288, 348, 407, 467, 526, 591, 651, 679	
Pentode Amplifiers (<i>Patents</i>) .. 681	
Physical Society's Exhibition, 1929 .. 81	
Physical Society's Exhibition for 1930 .. 601	
Pick-ups, Electrostatic (<i>Patents</i>) .. 527	
Picture Receiving Systems (<i>Patents</i>) .. 679	
Picture Transmission (<i>Patents</i>) .. 288, 289, 530	
Picture-Transmission, Timing-Devices (<i>Patents</i>) 231	
Piezoelectric Controlled Generators (<i>Patents</i>), 348, 528, 529	
Piezoelectric Mountings (<i>Patents</i>) .. 527	
Piezoelectric Crystals, Preparing (<i>Patents</i>) .. 683	
Piezoelectric Devices, Selective (<i>Patents</i>) .. 56	
Piezoelectric Speakers (<i>Patents</i>) .. 527	
Polish Broadcasting Co., Comments on, W. S. Heller .. (Correspondence) ..	6
Polish Broadcasting Co., Proposal for Distribution of Wavelengths ..	95
Positive and Negative Mutual Inductance (<i>Editorial</i>) ..	233
Potential Difference and E.M.F., E. A. Biedermann .. (Correspondence) ..	481
Projection of Frequency-Output Characteristics, C. G. Garton and G. S. Lucas ..	550
Push-Pull Amplification, F. Aughtie .. (Correspondence) ..	62
Push-Pull, S-G. Amplifiers (<i>Patents</i>) ..	307
Push-Pull, S-G. Amplifiers (<i>Correspondence</i>) ..	437
Push-Pull, S-G. Amplifiers (<i>Patents</i>) ..	408
Q uartz Oscillators (<i>Patents</i>) ..	57
R adio Intensity Measuring Apparatus, H.F., Portable (<i>I.E.E. Paper</i>), J. Hollingworth and R. Naismith ..	316
Receiver with Aperiodic H.F. Amplification, M. Von Ardenne ..	369
Receiving Circuits (<i>Patents</i>) ..	528
Receiving Sets (<i>Patents</i>) ..	349
Rectifiers (<i>Patents</i>) .. 350, 653, 679	
Reduction of Distortion in Anode Rectification, A. G. Warren .. (Correspondence) ..	425
Relays, Thermionic (<i>Patents</i>) ..	498, 550
Remote Control of Reception (<i>Patents</i>) ..	468
Reproducing Sounds (<i>Patents</i>) ..	172
Reproducing Sounds (<i>Correspondence</i>) ..	683
S creened-Grid Valve Circuits (<i>Patents</i>) .. 408	
Screening Amplifier Circuits (<i>Patents</i>) .. 290	
Secret Telephony Systems (<i>Patents</i>) .. 232	
Selective Piezo-Electric Devices (<i>Patents</i>) .. 56	
Selectivity, Definition of (<i>Editorial</i>) ..	411
Selectivity, Definition of, F. M. Colebrook .. (Correspondence) ..	422
Selectivity without reducing Intensity of Sidebands, W. B. Lewis ..	498, 552, 622
Short-wave Radiation, Effect of the Earth on (<i>Editorial</i>) ..	133
Short Waves, Investigation of (<i>I.E.E. Paper</i>), T. Eckersley ..	351
Short-Wave Transmitters (<i>Patents</i>) ..	255
Sidebands, Selectivity without reducing Intensity of, W. B. Lewis ..	349
Signalling by Frequency Modulation (<i>Patents</i>) .. (Correspondence) ..	133
Single Side-band Signalling (<i>Patents</i>) ..	260
Sound Horns (<i>Patents</i>) ..	230
Sound Reproducers (<i>Patents</i>) .. 407, 529, 681	
Sound Waves Radiated from Loud-speaker Diaphragms (<i>Editorial</i>) ..	681
Space-wave, Effect of the Ground on, E. T. Glas ..	175
Stabilised Push-Pull Oscillators (<i>Patents</i>) ..	663
Stabilizing Circuits (<i>Patents</i>) ..	348
Stabilizing Circuits (<i>Patents</i>) ..	653
Static Interference, Reducing (<i>Patents</i>) ..	349
Super-position of Circular Motions, T. S. Ranachari ..	184
Switch-controlled Receivers (<i>Patents</i>) ..	58
Switch-tuned Receivers (<i>Patents</i>) ..	470

PAGE	PAGE		
T elevision (<i>Correspondence</i>)	320	V alve Characteristics, Algebraic Representation, W. A. Barclay	178
Television Apparatus (<i>Patents</i>) 54, 170, 407,		Valve, Duplex (<i>Patents</i>)	469
.		Valve, Triode, Equivalent Network, F. M. Colebrook	486
Television, Scanning for (<i>Patents</i>)	349	Valves, Cooling Power Generators (<i>Patents</i>)	530
Television Systems (<i>Patents</i>)	651, 680, 681	Valves, Indirectly Heated (<i>Patents</i>), 350, 526, 529,	651, 679
Thermionic Cathodes (<i>Patents</i>)	407	Valves, Multi-Stage (<i>Patents</i>)	470
Thermionic Oscillation Generators (<i>Patents</i>)	348	Valves, Rectifying, Gas-filled (<i>Editorial</i>)	291
Timing Devices for Picture-Transmission (<i>Patents</i>)	231	Valves, Screened-Grid (<i>Patents</i>)	530
Toroidal Coils, H.F. Resistance, S. Butterworth	13	Voltage Amplification Factor of Tetrodes, Measurement of, W. Jackson	252
Toroidal Coupling Coils (<i>Patents</i>)	407, 652	Voltmeter, Sensitive Valve, without "Backing off," M. von Ardenne	669
Transformer Couplings (<i>Patents</i>)	591		
Transformers, Radio Frequency, as applied to Screen-grid Valves, S. Butterworth	293		
Transmission, "Dovetailed" (<i>Patents</i>)	230		
Transmission Unit and its Application to Radio Measurements, J. F. Herd	17		
Transmitters, Marconi Types TN 1—5a	134		
Transmitting Waves of definite frequency, but varying Amplitude (<i>Correspondence</i>), 37, 95, 139, 201, 261, 319			
Transmitting Aerials (<i>Editorial</i>)	59		
"Turn-over," The Problem of, M. Reed	310		
"U ltradyne" Circuit (<i>Patents</i>)	591		
Ultra Short-wave Broadcasting, B. van der Pol	9		
Ultra-Short Waves, Experimental Transmitting and Receiving Apparatus for, R. L. Smith-Rose and J. S. McPetrie	532, 605		
(<i>Correspondence</i>)	676		
W avelengths, Broadcast, Problem of International Distribution		3	
(<i>Correspondence</i>)		95	
Wavelengths of Broadcasting Stations, Measurement, R. Braillard and G. Divoire		412	
(<i>Correspondence</i>)		498	
Waves, Attenuation of, over Towns (<i>I.E.E. Papers</i>), R. H. Barfield and G. H. Munro	31		
Wired-Wireless Working (<i>Patents</i>)	229		
Wireless Progress in the Past Two Years (<i>I.E.E. Paper</i>), Capt. C. E. Kennedy Purvis, R.N.	675		
Writing of Scientific Papers, F. M. Colebrook	301		
(<i>Correspondence</i>)	384, 439, 552		

II. INDEX TO AUTHORS.

AUGHTIE, F.	307	ECKERSLEY, T. L. (<i>I.E.E. Paper</i>)	255
BARCLAY, W. A.	178, 596	GARTON, C. G., and LUCAS, G. S.	62
BARFIELD, R. H., and MUNRO G. H. (<i>I.E.E. Paper</i>)	31	GLAS, E. T.	663
BASHENOFF, V. I.	245	GRIFFITHS, W. H. F.	23, 77, 543
BIEDERMAN, E. A.	71, 135, 481	HELLER, W. S.	6
BLIGH, N. R.	299	HERD, J. F.	17
BRAILLARD, R., and DIVOIRE, E.	412	HODGSON, B., HARTLEY, L. S., and PRATT, O. S. (<i>I.E.E. Paper</i>)	141
BRAIN, B. C.	119	HOLLINGWORTH, J., and NAISMITH, R. (<i>I.E.E. Paper</i>)	316
BUITERWORTH, S.	13, 293, 619	JACKSON, W.	252
CHIREIX, H.	235	LEWIS, W. B.	133
CLARKE, H. M.	380, 602	MCPETRIE, J. S., and SMITH-ROSE, R. L.	532, 605
COLEBROOK, F. M.	301, 422, 486	PACK, S. W. C.	472, 554
COSSENS, C. R.	385	PURVIS, CAPT. C. E. K. (<i>I.E.E. Paper</i>)	675
COURSEY, P. R.	128	RANGACHARI, T. S.	184
DEARLOVE, F.	193	REED, M.	310
DIJKSTERHUIS, P. R., and GROENEVELD, Y. B. F. J.	374	SMITH-ROSE, R. L., and MCPETRIE, J. S.	532, 605
DIVOIRE, E., and BRAILLARD, R.	412	VAN DER POL, B.	9
ECKERSLEY, P. P., and T. L., and KIRKE, H. L. (<i>I.E.E. Paper</i>)	86	VON ARDENNE, M.	359, 669
ECKERSLEY, P. P. and HOWE, A. B. (<i>I.E.E. Paper</i>)	196	WARREN, A. G.	425
		WILMOTTE, R. M.	656

III. ABSTRACTS AND REFERENCES.

PROPAGATION OF WAVES.

- Über die Absorption Hertzscher Wellen in ionisierten Gasen (The Absorption of Hertzian Waves in Ionised Gases).—H. Dänzer, p. 500.
- L'Absorption des Ondes Électromagnétiques au-dessus des Forêts (The Absorption of Electromagnetic Waves by Forests).—A. Nodon, p. 321.
- A Visual Method of Observing the Influence of Atmospheric Conditions on Radio Reception.—E. Merritt and W. E. Boswick, p. 144.
- The Attenuation of Wireless Waves over Land: Discussion.—R. H. Barfield: C. R. Englund, p. 625.
- The Attenuation of Wireless Waves over Towns.—R. H. Barfield and G. H. Munro, p. 98.
- The Attenuation of Wireless Waves over Towns.—R. H. Barfield and G. H. Munro, p. 262.
- Variations in Signal Strength from Australia.—R. G. de Wardt, p. 323.
- Über die achsensymmetrischen elektromagnetischen Wellen mit axialem Fortpflanzungsrichtung (On Axially-symmetrical Electromagnetic Waves Propagated in a Direction Parallel to the Axis).—N. S. Japolsky, p. 442.
- Signal Strength Measurements at Bangalore.—K. Sreenivasan, p. 324.
- Beam Telephone on 14 cm. Waves.—K. Kohl, p. 501.
- Über die kalorimetrische Absolutmessung des elektrolytischen Leitvermögens für hochfrequente Wechselstrom (On the Calorimetric Absolute Measurement of Electrolytic Conductivity for High-frequency Currents).—E. Just, p. 502.
- Difference in Long Wave Propagation in England and America: Earth Conductivities?—S. W. Dean, p. 625.
- The Electrical Conductivity of the Atmosphere and its Causes.—V. F. Hess, p. 202.
- Variation of Conductivity of the Upper Atmosphere.—J. Egedal, p. 323.
- Messung des Leitvermögens der Erde für kurze elektrische Wellen (Measurement of the Conductivity of the Earth for [Very] Short Electric Waves).—M. J. O. Strutt, p. 623.
- Die Wellenausbreitung des Deutschen Senders (The Wave Propagation of the "Deutschland" Transmitter).—F. Kiebitz, p. 624.
- Experimentelle Untersuchungen der Veränderung der Dielektrizitätskonstanten eines sehr verdünnten Gases durch Elektronen (Experimental Investigations of the Alteration of the Dielectric Constant of a Very Rarified Gas by Electrons).—I. Bergmann and W. Düring, p. 440.
- The Variation of Dielectric Constants of Air and Carbon Dioxide with Wavelength (600–60 m).—M. Forró, p. 41.
- Thermal Diffusion of Rare Constituents in Gas Mixtures.—S. Chapman, p. 501.
- Remarques sur la Diffusion de la Lumière et des Ondes Hertziennes par les Électrons Libres (Remarks on the Diffusion of Light and Hertzian Waves by Free Electrons).—Ch. Fabry, p. 39.
- Experimentelle Untersuchungen über die Diffusion Langsamer Elektronen in Edelgasen (Experimental Investigation into the Diffusion of Slow Electrons in Inert Gases).—H. Pöse, p. 265.
- The Angular Distribution of Intensity of Resonance Radiation.—R. W. Gurney, p. 323.
- A Note on Doppler Effect and the Hypothesis of Radiation Quanta.—D. S. Koschani, p. 502.
- On the Difference of East to West and West to East Radio Transmission Phenomena at Sunrise and Sunset.—T. Nakai, p. 323.
- East-West and North-South Attenuations of Long Radio Waves on the Pacific.—E. Yokoyama and T. Nakai, p. 566.
- Echos von Hertzschen Wellen (Hertzian Wave Echoes).—K. W. Wagner, p. 144.
- Essai d'Explication de l'Écho Störmer-Hals (A Suggested Explanation of the Störmer-Hals Echoes).—H. S. Jelstrup, p. 262.
- Short Wave Echoes and the Aurora Borealis.—C. Störmer, p. 38.
- Short Wave Echoes and the Aurora Borealis.—B. van der Pol, p. 97.
- Short Wave Echoes and the Aurora Borealis.—E. V. Appleton, p. 98.
- Short Wave Echoes and the Aurora Borealis.—L. H. Thomas, p. 202.
- Radio Echoes and Conditions for their Occurrence.—C. Störmer, p. 144.
- Radio Echoes and Magnetic Storms.—S. Chapman, p. 38.
- Radio Echoes and Magnetic Storms: Atmospheric "Whistlers."—T. L. Eckersley, p. 38.
- A Study of Short-time Multiple Signals (Echoes).—J. B. Hoag and V. J. Andrew, p. 38.
- Doppel- und Mehrfachzeichen bei Kurzwellen (Echoes, Single and Multiple, on Short Waves).—E. Quäck and H. Mögel, p. 322.
- Double and Multiple Signals with Short Waves: Short Range Echoes with Short Waves.—E. Quäck and H. Mögel, p. 440.
- Kurzwellenechos, die mehrere Sekunden nach dem Hauptsignal eintreffen, und wie sie sich aus der Theorie des Polarlichtes erklären lassen (Short Wave Echoes arriving Several Seconds after the Main Signal, and How they can be Explained by the Polar Light Theory).—C. Störmer, p. 565.
- Long Delayed Radio Echoes.—P. O. Pedersen, p. 565.
- Sur les Échos retardés (Retarded Echoes).—C. Störmer, p. 623.
- L'Eclipse du Soleil du 9 Mai 1929 (The Solar Eclipse of 9th May, 1929).—p. 323.
- Diagramme des Champ Électriques mesurés à Meudon pendant le Deuxième Semestre 1927 (Diagram of the Electric Fields measured at Meudon during the second half of 1927).—p. 146.
- Über die Eigenschwingung freier Elektronen in einem konstanten Magnetfeld (The Natural Vibration of Free Electrons in a Constant Magnetic Field).—S. Benner, p. 490.
- Über die experimentelle Erforschbarkeit der höheren Schichten der Atmosphäre (On the Explorability of the Higher Layers of the Atmosphere).—H. Beundorf, p. 324.
- A Method of Exploring the Atmosphere by the Help of Disturbances of Electromagnetic Field at the Passage of the Twilight Band.—J. Lugeon, p. 443.
- Elimination of Fading, p. 41.
- Some Observations of Short Period Radio Fading.—T. Parkinson, p. 500.
- Fading Curves along a Meridian.—R. C. Colwell, p. 100.
- Fading and Skip Distance in the Dutch East Indies.—S. G. Langendam, p. 501.
- Fading Curves and Weather Conditions.—R. C. Colwell, p. 234.
- The Measurements of the Field Intensities of some High-power Long-distance Radio Stations. Part II.—Malabar, Palao and Rugby; Part III.—Kahuku, Pearl Harbour and Saigon.—E. Yokoyama and T. Nakai, p. 324.
- The Measurements of the Field Intensities of Some High-power Long Distance Radio Stations. IV.—Warsaw, Tananarive and Monte Grande.—E. Yokoyama and T. Nakai, p. 566.
- The Problems Centering about the Measurement of Field Intensity.—S. W. Edwards and J. E. Brown, p. 625.
- Feldstärkemessungen auf grosse Entfernung im Rundfunkwellenbereich (Field Strength Measurements at great distances for Broadcast Wavelengths).—M. Baumler, p. 97.
- Field Strengths of European Broadcasting Stations Measured at Berlin.—M. v. Ardenne, p. 146.
- Änderung der Empfangsfeldstärke über Land mit der Entfernung bei langen Wellen (Variation of Received Field Strengths with Distance, for Long Waves over Land).—H. Fassbender, p. 624.
- Five-meter Work.—C. H. West, p. 566.
- Über die Frequenzänderung des Lichtes durch Variation des Optischen Weges (On the Frequency Change of Light Due to Variation of Optical Path).—S. Levy, p. 442.
- The Effect of Strong Electric and Magnetic Fields on the Rectilinear Propagation of Gamma Rays.—J. H. J. Pool and A. J. Clarke, p. 386.
- Geographical Influences and Radio Waves.—R. Bureau, p. 442.
- Tests of Significance in Harmonic Analysis.—R. A. Fisher, p. 623.
- The Transfer of Heat by Radiation and Turbulence in the Lower Atmosphere.—D. Brunt, p. 336.
- Measurements of the Height of the Kennelly-Heaviside Layer.—G. W. Kenrick and C. R. Jen, p. 441.
- A New Method of Determining Height of the Kennelly-Heaviside Layer.—C. B. Mirick and E. R. Hentschel, p. 500.
- The Equivalent Heights of the Atmospheric Ionised Regions in England and America.—E. V. Appleton, p. 321.
- Wellen-Induktion in der Drahtlosen Telegraphie (Wave Induction in Wireless Telegraphy).—K. Uller, p. 203.
- Über die Anwendung des Ebert'schen Ionenzählers zur Bestimmung der Zahl und der Beweglichkeit der kleinen Ionen in der Atmosphäre (The Use of the Ebert Ion-counter for the Measurement of the Number and Mobility of the Small Ions in the Atmosphere).—W. J. Baranow and E. S. Stichepotjewa, p. 323.
- Sur l'Ionisation atmosphérique (Atmospheric Ionisation).—Ch. Maurain and E. Salles, p. 323.
- Note on the Determination of the Ionisation in the Upper Atmosphere.—J. C. Schelleng, p. 98.
- Further Note on the Ionisation in the Upper Atmosphere.—J. C. Schelleng, p. 624.
- Sur les Propriétés des Gaz Ionisés dans les Champs de Haute Fréquence (The Properties of Ionised Gases in H.F. Fields).—H. Gutton, p. 146.
- Note sur les Experiences relatives aux Propriétés Diélectriques des Gaz Ionisés de MM. Gutton et Clément (Note on Gutton and Clément's Experiments on the Dielectric Properties of Ionised Gases).—J. Rybner, p. 146.
- Effet d'un Champ Magnétique sur des Phénomènes de Résonance dans les Gaz Ionisés (Effect of a Magnetic Field on Resonance-Phenomena in Ionised Gases).—H. Gutton, p. 204.

- Sur les Propriétés diélectriques des Gaz ionisés dans les Champs de Haute Fréquence (On the Dielectric Properties of Ionised Gases in H.F. Fields).**—H. Gutton, p. 385.
- Sur la Constante diélectrique des Gaz ionisés (The Dielectric Constant of Ionised Gases).**—H. Gutton, p. 385.
- Sur la Couche ionisée de la Haute Atmosphère (The Ionised Layer of the Upper Atmosphere).**—M. Ponte and Y. Rocard, p. 500.
- Recombination of Ions in Atmospheric Air.**—P. J. Nolan and C. O'Brolchain, p. 265.
- The Recombination of Ions and of Ions and Electrons in Gases: the Theory of Recombination of Gaseous Ions: Recombination of Free Electrons and Positive Ions.**—L. C. Marshall; L. B. Loeb and L. C. Marshall; R. Seeliger, p. 625.
- The Mobility Distribution and Rate of Formation of Negative Ions in Air.**—J. L. Hainsheire, p. 567.
- Über den Durchgang von Ionen durch verdünnte Gase (The Passage of Ions through Rarefied Gases).**—H. Kallmann and B. Rosen, p. 625.
- The Mobility of Ions in Air. Parts IV and V.**—A. M. Tyndall, L. H. Starr and C. F. Powell; A. M. Tyndall, G. C. Grindley and P. A. Sheppard, p. 146.
- Transient Effects with Ions of Low Mobility.**—H. P. Walmsley, p. 385.
- Ions and Electrical Currents in the Upper Atmosphere.**—E. O. Hulbert, p. 625.
- The Influence of an Alternating Field on Light Transmitted through Water.**—W. F. G. Swann: A. Bramley, p. 567.
- Über eine mögliche Interpretation des elektromagnetischen Feldes des Lichtes (On a Possible Interpretation of the Electromagnetic Field of Light).**—F. J. V. Wiśniewski, p. 626.
- The Effect of a Transverse Magnetic Field on the Propagation of Light in vacuo.**—W. H. Watson, p. 626.
- Die Reflexion des Lichtes an einem bewegten Spiegel (The Reflection of Light at a Rotating Mirror).**—J. Würschmidt, p. 626.
- Sur la Constante de la Vitesse de la Lumière (On the Constancy of the Velocity of Light).**—P. Salet, p. 443.
- Die Bestimmung der Lichtgeschwindigkeit unter Verwendung des elektro-optischen Kerr-Effektes (Determination of the Velocity of Light by the Use of the Electro-optical Kerr Effect).**—O. Mittelstaedt, p. 567.
- Velocity of Light and the Ratio of E.S. and E.M. Units.**—p. 567.
- The Interpretation of the Behaviour of Algol, and the Variability of the Velocity of Light.**—M. La Rosa, p. 626.
- Radio Communication and Magnetic Disturbances.**—C. S. Wright, p. 99.
- The Influence of the Earth's Magnetic Field on Electric Transmission in the Upper Atmosphere.**—S. Goldstein, p. 40.
- Magnetic Storms and Radio Signals.**—I. J. Wyman, p. 500.
- Relation of Radio Wave Propagation to Disturbances in Terrestrial Magnetism.**—I. J. Wyman, p. 568.
- Enkele Opmerkingen over de Analogie tussschen Mechanische en Golftuitbreidingsproblemen (Remarks on the Analogy between Mechanical and Wave-propagation Problems).**—W. de Groot, p. 442.
- T.S.F. et Météorologie (Wireless and Meteorology).**—De la Forge, p. 387.
- Long Wave Radio Reception and Atmospheric Ozone.**—G. M. B. Dobson, p. 39.
- Long Wave Radio Reception and Atmospheric Ozone.**—K. Sreenivasar, p. 100.
- The Altitude of the Ozone Layer.**—J. C. McLennan, R. Ruedy, and V. Krotkov, p. 567.
- Observations of the Height of the Ozone in the Upper Atmosphere.**—F. W. P. Götz and G. M. B. Dobson, p. 625.
- The Ozone in the Earth's Atmosphere.**—D. N. Harrison, p. 501.
- Measurements of the Amount of Ozone in the Earth's Atmosphere and its Relation to other Geophysical Conditions. Part III.**—G. M. B. Dobson, D. N. Harrison, and J. Lawrence, p. 202.
- Mesure de l'Ozone de la Haute Atmosphère pendant l'Année 1928 (Measurements of the Ozone in the Upper Atmosphere during 1928).**—H. Buisson, p. 264.
- Relations entre les Titres en Ozone de l'Air du Sol et de l'Air de la haute Atmosphère (Relations between the Ozone Values of Air at Ground Level and of Air of the Upper Atmosphere).**—A. Lepape and G. Colange, p. 567.
- Chute d'un Gaz lourd dans un Gaz léger. Stabilité de l'Ozone dans la haute Atmosphère (The Sinking of a Heavy Gas in a Light Gas. Stability of Ozone in the Upper Atmosphere).**—Y. Rocard, p. 441.
- La Filtration du Rayonnement solaire par l'Ozone atmosphérique (The Filtration of Solar Radiation by Atmospheric Ozone).**—G. Djardin, p. 567.
- Messungen des Ozongehaltes über Lindenbergs (Measurements of Ozone Content over Lindenbergs).**—P. Duckert, p. 567.
- Ozone Absorption during Long Arctic Night.**—G. M. B. Dobson, p. 386.
- The Absorption of Ultra-Violet Light in Ozone.**—A. Läuchli, p. 386.
- Formation of Ozone by Cathode Rays.**—A. L. Marshall, p. 386.
- Formation of Ozone in Electrical Discharge at Pressures below 3 Millimetres.**—J. K. Hunt, p. 567.
- Magnetic Susceptibility of Ozone.**—V. I. Vaidyanathan, p. 387.
- Ozone Due to Particles.**—F. E. Fowle, p. 442.
- Photochemical Ozonisation.**—O. R. Wulf, p. 100.
- La Pénétration des Déplacements électriques ou magnétiques ainsi que des Ondes électromagnétiques à la Surface de séparation de deux Milieux (The Penetration of Electric or Magnetic Displacements, or of Electromagnetic Waves, at the Surface of Separation of Two Media).**—A. K. Kotelnikoff, p. 501.
- Some Polarisation Phenomena of Very Short Radio Waves.**—E. A. Paulin, p. 263.
- The Propagation of Air Waves and the Upper Atmosphere.**—F. J. W. Whipple, p. 100.
- Die Fortpflanzung elektrischer Wellen in Kabeln mit zwei Isolations-schichten (The Propagation of Electric Waves in Cables with two Insulating Layers).**—N. H. Frank, p. 100.
- Über die Ausbreitung elektrischer Wellen um eine Leitende Kugel (The Propagation of Electric Waves on a Conducting Sphere).**—F. Breisig, p. 566.
- The Propagation of Electromagnetic Waves in a Stratified Medium.**—D. R. Hartree, p. 441.
- Über die Wellenausbreitung in einem dispergiierenden Medium (Wave Propagation in a dispersive Medium).**—K. Sreenivasan, p. 39.
- La Propagation de la Lumière dans l'Ether (The Propagation of Light in the Ether).**—H. Malet, p. 285.
- Fortpflanzung des Lichtes durch fremde Kraftfelder (The Propagation of Light Through Extraneous Fields).**—V. Wiśniewski, p. 263.
- Zur Quantendynamik der Wellenfelder (On the Quantum Dynamics of Wave Fields).**—W. Heisenberg and W. Pauli, p. 628.
- Radio Transmission and the Upper Atmosphere.**—G.W.O.H., p. 98.
- Range Tests with Waves under One Metre in Length.**—W. Ludenia, p. 501.
- Experiments in Recording Radio Signal Intensity.**—L. W. Austin, p. 565.
- The Total Reflexion of Electric Waves at the Interface between Two Media.**—H. M. Macdonald, p. 324.
- The Reflection and Transmission of Electric Waves at the Interface Between Two Transparent Media.**—H. M. Macdonald, p. 263.
- Refraction of Light Waves by Electrons.**—S. K. Mitra and H. Rakshit, p. 386.
- Messungen des Brechungsexponenten von Wasser zwischen 23 und 73 cm. Wellenlänge (Measurements of the Index of Refraction of Water between 23 and 73 cm. Wavelength).**—E. Frankenberger, p. 386.
- Penetration of Rocks by Electromagnetic Waves.**—A. S. Eve, D. A. Kevs, F. W. Lee, p. 565.
- Sabine's Law in Relation to Electromagnetic Radiation in Closed Spaces.**—M. J. O. Strutt, p. 567.
- The Scattering of Light by Electrons.**—G. Glückler, p. 386.
- Application to Geophysical Investigations of Levi-Civita's Theory relating to the Influence of a Conducting Screen on the Electromagnetic Field of an Alternating Current parallel to the Screen.**—A. Rostagni, p. 146.
- An Investigation of Short Waves.**—T. L. Eckersley, p. 321.
- An Investigation of Short Waves.**—T. L. Eckersley, p. 385.
- An Investigation of Short Waves.**—T. L. Eckersley, p. 625.
- Bemerkung zu dem Aufsatz von J. Fuchs: Das Verhalten kurzer Wellen in unmittelbarer Nähe des Senders (A Note on Fuchs' paper "The Behaviour of Short Waves in the Immediate Neighbourhood of the Transmitter").**—P. O. Pedersen, p. 283.
- Das Verhalten kurzer Wellen in unmittelbarer Nähe des Senders (The Behaviour of Short Waves in the Immediate Neighbourhood of the Transmitter).**—J. Fuchs, p. 97.
- Étude sur la Propagation des Ondes Courtes (On the Propagation of Short Waves).**—Guyot, p. 283.
- Étude Expérimentale des Zones de Silence dans la Propagation des Ondes Courtes (Experimental Study of the Zones of Silence in the Propagation of Short Waves).**—R. Bureau, p. 262.
- Rôle possible de la Diffusion par les Électrons dans la Propagation des Ondes Courtes (Possible Role of the Diffusion by Electrons in the Propagation of Short Waves).**—Ponte and Y. Rocard, p. 89.
- Le Rôle des Électrons libres dans la Propagation des Ondes Courtes (The Part Played by the Free Electrons in the Propagation of Short Waves).**—J. Granier, p. 441.
- Der Einfluss der Erdatmosphäre auf die Ausbreitung kurzer Wellen (The Influence of the Earth's Atmosphere on the Propagation of Short Waves).**—J. Fuchs, p. 40.
- Über die Ausbreitung kurzer elektromagnetischer Wellen in der Heavisideschicht (Propagation of Short Waves in the Heaviside Layer).**—K. Försterling, p. 145.
- Über die Ausbreitung der kurzen Wellen bei kleiner Leistung im 1,000 Kilometer-Bereich (Short-wave Low-power Communication for 1,000 Kilometer Range).**—K. Krüger and H. Plendl, p. 321.
- The Propagation of Low Power Short Waves in the 1,000-Kilometer Range.**—K. Krüger and H. Plendl, p. 624.
- Über Telegraphie mit kurzen Wellen (Short Wave Telegraphy).**—H. Rukop, p. 145.
- Some Experiments in Short Distance Short-wave Radio Transmission.**—J. K. Clapp, p. 322.
- Transoceanische drahtlose Telegraphie mit kurzen Wellen (Trans-oceanic Wireless Telegraphy on Short Waves).**—H. Rukop, p. 385.

- Activité Solaire et Propagation (Solar Activity and Propagation).—R. Mesny, p. 385.
- The Propagation of Sound in Gases.—D. G. Bourgin, p. 387.
- Die Schallausbreitung in der Atmosphäre bei künstlichen Sprengungen (Sound Propagation in the Atmosphere from Artificial Explosions).—O. Meissner, p. 324.
- Low Frequency Sound Waves and the Upper Atmosphere.—E. H. Gowan, p. 625.
- On the Criterion for Stability of a Layer of Viscous Fluid Heated from Below.—A. R. Low, p. 587.
- The Stratopause over North India.—K. R. Ramanathan, p. 100.
- Radio Reception and Sun Spots.—H. T. Stetson; G. W. Pickard, p. 566.
- A Study of the Vertical Gradient of Temperature in the Atmosphere near the Ground.—N. K. Johnson, p. 587.
- An Analysis of the Changes of Temperature with Height in the Stratosphere over the British Isles.—L. H. G. Dines, p. 387.
- Thermal Diffusion at Low Temperatures.—T. L. Ibbs, K. E. Grew, and A. A. Hirst, p. 625.
- Reception Experiments in Mount Royal Tunnel: Discussion.—C. R. Englund; A. S. Eve, p. 501.
- Reception Experiments in Mount Royal Tunnel.—A. S. Eve, W. A. Steel, G. W. Olive, A. R. McEwan, and J. H. Thompson, p. 283.
- Note on Earth Reflection of Ultra Short Radio Waves.—E. H. Lange, p. 442.
- Sur la Propagation et la Détection des Ondes Courtes—10 à 18 cm. (The Propagation and Detection of [Ultra] Short Waves—10 to 18 cms.)—E. Pierret, p. 585.
- Untersuchungen über die Ausbreitungsvorgänge ultrakurzer Wellen (Investigations into the Propagation of Ultra Short Waves).—F. Gerth and W. Scheppmann, p. 293.
- Abhängigkeit der Reichweite sehr kurzer Wellen von der Höhe des Senders über der Erde (Dependence of the Range of Ultra Short Waves on the Height of the Transmitter above the Earth).—H. Fassbender and G. Kurlbaum, p. 264.
- The Attenuation of Ultra-Violet Light by the Lower Atmosphere.—L. H. Dawson, L. P. Granath, and E. O. Hulbert, p. 501.
- Some Notes on Wireless Methods of Investigating the Electrical Structure of the Upper Atmosphere. Part I.—E. V. Appleton, p. 145.
- On the Rate at which Particles take up Random Velocities from Encounters according to the Inverse Square Law.—L. H. Thomas, p. 146.
- Group Velocity.—D. G. Bourgin, p. 500.
- Über die Fortpflanzungsgeschwindigkeit elektrischer Wellen an dünnen Drähten von Verschiedenen Leitvermögen (The Velocity of Propagation of Electric Waves along thin Wires of various Conductivities).—L. Bergmann and G. Holzlöhner, p. 146.
- Two Energy Types in Wave Motion and their Relation to Group and Wave Velocity.—Lewi Tonks, p. 265.
- A Study of Wave Synthesis by Mechanical Means.—A. D. Ladner, p. 502.
- A Graphical Theory of Travelling Electric Waves between Parallel Conductors.—N. Karapetoff, p. 323.
- ### ATMOSPHERICS AND ATMOSPHERIC ELECTRICITY.
- Sur l'Accélération des Masses d'Air dans les Mouvements atmosphériques (The Acceleration of Masses of Air in Atmospheric Movements).—L. Petitjean, p. 503.
- Die Häufigkeit (mittlere Dauer) aperiodischer Wellen des Luftdrucks und der Temperatur (The Frequency—mean Duration—of the Aperiodic Waves of Atmospheric Pressure and Temperature).—F. Travníček, p. 205.
- Variation diurne du Potential électrique de l'air et Déperdition électrique pendant le Mois de Septembre, 1928, à l'Observatoire de Ksara—Liban (Daily Variation of Atmospheric Electric Potential and Electric Dissipation Loss during September 1928, at Ksara, Liban).—J. Chevrier, p. 502.
- Über Elektromagnetische Störungen (On Atmospherics).—F. Schindelhauer, p. 101.
- Elektromagnetische Störungen II (Atmospherics. Part II).—F. Schindelhauer, p. 503.
- Sur l'Origine de Certains Parasites (On the Origin of Certain Atmospherics).—Ch. Maurau, p. 443.
- Sur l'Origine de Certains Parasites (On the Origin of Certain Atmospherics).—R. Bureau, p. 443.
- Compte Rendu des Observations Radioatmosphériques faites pendant l'Année 1927 (Report on the Observations of Atmospherics during 1927).—D. B. Paolini and G. P. Ilardi, p. 504.
- Un Procédé pour déterminer à grande Distance la Position géographique et la Vitesse de certaines Discontinuités ou Perturbations météorologiques à l'Aide des Atmospériques qu'elles émettent (A Method of Determining from a Great Distance the Geographical Position and the Velocity of Certain Meteorological Discontinuities or Disturbances, by Means of the Atmospherics which these Emit).—J. Lugeon, p. 502.
- Nuovo Registratore di Atmosferici e Primi Risultati con esso ottenuti (A New Atmospherics Recorder, and Its First Results).—I. Ranzi, p. 286.
- A Theory of Auroras and Magnetic Storms.—H. B. Maris and E. O. Hulbert, p. 265.
- On the Origin of the Aurora Polaris.—S. Chapman, with reply by E. O. Hulbert, p. 147.
- New Evidence of the Action of Sunlight on Aurora Rays.—C. Störmer, p. 445.
- The Distribution in Space of the Sunlit Aurora Rays.—C. Störmer, p. 204.
- The Spectrum of Sunlit Aurora Rays as compared with the Spectrum of Low Aurora in the Earth's Shadow.—Carl Störmer, p. 589.
- International Co-operation for Auroral Research.—C. Störmer, p. 504.
- Die Erzeugung weitgehend homogener Magnetfelder durch Kreisströme (The Formation of Extensive Homogeneous Magnetic Fields by Circular Currents).—G. Faiselau, p. 504.
- Accumulation of Electric Charge on Thunder-clouds.—I. Nukiyama, p. 286.
- Comets and Terrestrial Magnetic Storms.—H. B. Maris and E. O. Hulbert, p. 503.
- An endeavour to Detect a Corpuscular Current Entering the Earth.—W. F. G. Swann and A. Longacre, p. 589.
- Houston Observations on the Direction of Atmospherics.—A. E. Harper and S. W. Dean, p. 444.
- Some Measurements on the Directional Distribution of Static.—A. E. Harper, p. 588.
- A Note on the Directional Observations on Grinders in Japan.—E. Yokoyama and T. Nakai, p. 266.
- Recherches sur les Perturbations électromagnétiques, sismiques et solaires (Researches on Electromagnetic, Seismic and Solar Disturbances).—A. Nodon, p. 324.
- Sur l'Électricité atmosphérique au cours des Vents de Poussière du Nord de la Chine (Atmospheric Electricity during the Dust Winds of N. China).—H. Pollet, p. 266.
- Earth Current Registration.—S. K. Banerji, p. 325.
- Ergebnisse meiner Untersuchungen der Messungen des Erdpotentials (Results of my Investigations into the Measurements of Earth Potential).—R. Stoppel, p. 147.
- Variations du Champ électrique terrestre à la Station du Sommet du puy de Dôme (Variations of the Terrestrial Electric Field at the Puy de Dôme Summit Station).—E. Mathias and Ch. Jacquet, p. 504.
- The Importance of Lines of Equal Entropy in Atmospheric Physics.—Napier Shaw, p. 445.
- A Method of Exploring the Atmosphere by the help of the Disturbances of the Electromagnetic Field at the passage of the Twilight Band.—J. Lugeon, p. 444.
- The Electrification of Air by Friction.—A. W. McDiarmid, p. 147.
- Tribology and Friction. IV.—Electricity due to Air Blown Particles.—P. E. Shaw, p. 147.
- Contribution à l'Étude de la Matière fulminante (Contribution to the Study of Fulminant Matter).—E. Mathias, p. 588.
- New Use for Fulograph, p. 588.
- Über die Fortsetzung der Generoso-Versuche (On the Progress of the Mt. Generoso Experiments).—A. Brasch, F. Lange and C. Urban, p. 587.
- Sur un Orage observé au Pic du Midi, et sur la Formation de la Grêle (A Storm on the Pic du Midi, and the Formation of Hail).—C. Dauzère, p. 41.
- Molecular Hydrogen in Sunspots.—G. Piccardi, p. 102.
- Effect of the Earth's Magnetic and Electric Fields on Ion Paths in the Upper Atmosphere.—Leigh Page, p. 446.
- Messungen der durch Elektronenstrahlen verursachten Ionisation der Luft (Measurements of Air Ionisation by Electron rays).—W. Schnitz, p. 147.
- Ions and Electrical Currents in the Upper Atmosphere.—E. O. Hulbert, p. 627.
- On the Nature of the Ions in Air.—H. A. Erikson, p. 266.
- Die initiale Lebensdauer der Ionen in der Luft über dem Meere (The Mean Life of Ions in the Air over the Sea).—V. F. Hess, p. 147.
- The Motion of Ions in Constant Fields.—Leigh Page, p. 445.
- On Lightning: The Kelvin Lecture.—G. C. Siupson, p. 387.
- The Energy of Lightning.—A. McAdie, p. 266.
- La Foudre et les Lignes Électriques (Lightning and Electric Lines).—C. Dauzère, p. 588.
- Lightning and Overhead Electric Power Lines.—E. Beck, p. 205.
- Theoretical and Field Investigations of Lightning.—C. L. Fortescue, A. L. Atherton, and J. H. Cox. And Lightning: Progress in Lightning Research in the Field and in the Laboratory.—F. W. Peck, p. 325.
- Lightning Protection in Practice and Theory, p. 627.
- Die Messung der Horizontal- und der Vertikaintensität des elektromagnetischen Feldes mit dem Magnetron (The Use of the Magnetron for Measuring the Horizontal and Vertical Intensities of the Earth's Magnetic Field).—M. Rossiger, p. 588.
- Cosmical Magnetic Phenomena.—S. Chapman, p. 502.
- The Time Interval between Magnetic Disturbance and the Associated Sunspot Changes.—J. M. Stagg, p. 205.
- Solar Streams of Corpuscles and Magnetic Storms.—S. Chapman, p. 387.

- Magnetic Storms** and Solar Activity, 1874 to 1927.—W. M. H. Greaves and H. W. Newton, p. 387.
- Sur l'Orage Magnétique du 7 au 8 Juillet 1928 et les Phénomènes Connexes (The **Magnetic Storm** of 7th-8th July, 1928, and its Associated Phenomena).—Ch. Maurain, p. 443.
- Wireless Telegraphy and **Magnetic Storms**.—H. B. Maris and E. O. Hulbert, p. 324.
- On the Variability of the Quiet-Day Diurnal **Magnetic Variation** at Eskdalemuir and Greenwich.—S. Chapman and J. M. Stagg, p. 266.
- On the Theory of the Solar Diurnal Variation of the Earth's **Magnetism**.—S. Chapman, p. 204.
- Evaluation of the True Influence of the Electric Hyper-Atmosphere on Terrestrial **Magnetism**.—D. A. Grave, p. 148.
- An Electromagnetic Effect of Importance in Solar and Terrestrial **Magnetism**.—Ross Gunn, p. 445.
- L'Hyperatmosphère électrique et le Magnétisme terrestre (The Electric Hyperatmosphere and Terrestrial **Magnetism**).—D. Grave, p. 568.
- Rotation of the Earth and **Magnetostriction**.—E. S. King; A. H. R. Goldie, p. 569.
- Measurements of Atmospheric Electricity.—G. Aliverti and A. Rostagni, p. 568.
- Überlagerung des Newtonschen Feldes durch ein Coulombsches Feld (The Superposition of an Electric Field on the **Newtonian Field**).—G. v. Gleich, p. 503.
- Atmospheric **Oscillations** shown by the Microbarograph.—N. K. Johnson, p. 102.
- Ozone**.—See under Propagation of Waves.
- Eine Bemerkung über die Abhängigkeit der maximalen Himmels-polarisation von der Sonnenhöhe (A Note on the Dependence of the Maximum Sky Polarisation on the Height of the Sun).—J. J. Tichanowsky, p. 504.
- Comment on Stoppe's Investigations into Local Variations of Earth Potential.—F. Linke, p. 627.
- Potential Gradient at Great Heights.—P. Idrac, p. 147.
- Diurnal Variation of Electric Potential Gradient.—F. J. W. Whipple, p. 627.
- Radium Emission Content of the Atmosphere as Determined by Aeroplane Observations.—A. Wigand and F. Wenk, p. 266.
- Sur l'Électrisation de Vents chargés de Neige (The Electrification of Wind charged with Snow).—A. Vincent, p. 325.
- Activité Solaire et Magnétisme Terrestre (**Solar Activity** and Terrestrial Magnetism).—Ch. Maurain, p. 41.
- Character Figures of Solar Phenomena, p. 102.
- Periods of Solar and Terrestrial Phenomena.—H. Fritz, p. 504.
- L'Été 1928 et les Variations Solaire (The Summer of 1928 and Solar Variations).—H. Mémy, p. 41.
- Sondages de Pression et de Température par Radiotélégraphie (Pressure and Temperature Soundings by Radiotelegraphy).—R. Bureau, p. 445.
- Spark Potentials at Pressures below Atmospheric Pressure, and the Minimum Potential with respect to the Electrode Function.—F. Klinglüss, p. 568.
- The Analysis of Irregular Motions with Applications to the Energy-frequency Spectrum of Static and of Telegraph Signals.—G. W. Kenrick, p. 265.
- La Genèse des Orages de Chaleur et leur Prévision à l'Aide des Atmosphériques (The Genesis of Heat **Storms**, and their Prediction by the help of Atmospheres).—J. Lugeon, p. 626.
- Turbulence in the Sun's Atmosphere.—W. H. McCrea, p. 627.
- The Sun's Radial Magnetic Gradient and Atmosphere.—Ross Gunn, p. 445.
- Die radiale Begrenzung des Magnetfeldes der Sonne (On the Radial Limitation of the Sun's Magnetic Field).—J. Bartels, p. 502.
- Radial Limitation of the Sun's Magnetic Field: Sun's General Magnetic Field and the Chromosphere.—S. Chapman, p. 387.
- Sunspots** and Pressure.—M. V. Unakar, p. 504.
- Sun-spots** in Weather Prediction.—H. N. Russell, p. 41.
- Distribution of Temperature in the First 25 Kilometres over the Earth.—K. R. Ramanathan, p. 445.
- Über den Einfluss der Temperatur auf die Zusammensetzung der Atmosphäre in den obersten Schichten (The Influence of Temperature on the Composition of the Highest Layers of the Atmosphere).—H. Petersen, p. 147.
- Some Thundercloud Problems.—C. T. R. Wilson, p. 568.
- Charges of Thunder Clouds.—D. Nukiyama and H. Noto, p. 568.
- High-voltage Phenomena in **Thunderstorms**.—M. A. Lissman, p. 205.
- On the Association of the Diurnal Variation of Electric Potential Gradient in Fine Weather and the Distribution of **Thunderstorms** over the Globe.—F. J. W. Whipple, p. 102.
- Durchlässigkeit der absolut reinen und trockenen Atmosphäre für Sonnenstrahlung (Transparency of the Absolutely Pure and Dry Atmosphere for Solar Radiation).—W. Kastrow, p. 504.
- The Ultra-Violet Light of the Sun as the Origin of Aurora and Magnetic Storms.—H. B. Maris and E. O. Hulbert, p. 101.
- The Ultra-Violet Light of the Sun as the Origin of Aurora and Magnetic Storms.—S. Chapman, p. 101.
- The Effect of Water Vapour on the Mobility of Gaseous Ions in Air.—H. A. Erikson, p. 147.
- Weather** and Wireless.—R. A. Watson Watt, p. 324.
- Broadcasting of Synoptic **Weather** Charts, p. 504.
- The Past Cold Winter and the Possibility of Long-range **Weather Forecasting**.—W. J. Pettersson, p. 387.
- Weather Analysis** Associated in Three Dimensions. Part I.—Main Introduction to the Problem of Air Masses and Front Formation.—T. Bergeron, p. 568.
- Correlation of Directional Observations of Atmospherics with **Weather Phenomena**.—S. W. Dean, p. 568.
- Zur Frage des täglichen Windranges (The Question of the Daily Variations of Wind).—B. Iswekow, p. 504.

PROPERTIES OF CIRCUITS.

- Circuits coupled to Tuned and Detuned **Aerials**.—R. Rechnitzer, p. 507.
- La Question de l'Amplification (The Question of **Amplification**).—P. Olinet, p. 504.
- Low-frequency **Amplification** with Transformers.—P. R. Dijksterhuis and Y. B. F. J. Groeneveld, p. 505.
- Amplification of Long Waves (German Patent 404,227, Lorenz, p. 42).
- Étude de la Méthode de Beatty pour la Mesure de l'Amplification d'un Étage à Résonance (An Investigation of Beatty's Method of Measuring the **Amplification** of a Tuned Stage).—F. Bedau and J. de Mare, p. 504.
- A New Transformation in Alternating Current Theory, with an Application to the Theory of Audition.—B. van der Pol, p. 268.
- Radio Valve Anode **Capacitive Resistance**, p. 42.
- Über Schwingungszerzeugung mittels eines Elektronenröhrensystems, bei welchem die Kapazität von untergeordneter Bedeutung ist (The Production of Oscillations by a Valve Circuit in which the **Capacity** is of Secondary Importance).—K. Heegner and Y. Watanabe, p. 628.
- Über elektrische Schwingungen in zusammengesetzten Kreisen und über die Kapazitätsmessung von Widerständen und Spulen nach der Resonanzmethode (Oscillations in compound Circuits, and the Capacity Measurement of Resistances and Coils by the Resonance Method).—M. Jezewski, p. 148.
- Hochfrequenzsteuerung mit Gittergleichstrom (H.F. Control by Grid Direct Current).—K. Krüger and H. Plendl, p. 389.
- Over het Probleem der Damping in de Matematische Physica (On the Problem of Damping in Mathematical Physics).—M. J. O. Strutt, p. 507.
- Damping and Oscillation: Excitation of Aperiodic Systems.—F. Tank and K. Graf, p. 389.
- Detection at High Signal Voltages. Part I.—Plate Rectification with the High-Vacuum Triode.—S. Ballantine, p. 570.
- Some Principles of Grid-leak Grid-condenser **Detection**.—F. E. Terman, p. 41.
- Notes on Grid-Circuit **Detection**.—J. R. Nelson, p. 325.
- Principles of Grid-Leak Grid-Condenser **Detection** (F. E. Terman): Discussion, p. 447.
- Rivelazione per Caratteristica di Griglia (Detection by Grid Characteristic).—M. Boella, p. 570.
- The Valve as an Anode Bend **Detector**; Obtaining Maximum Efficiency with Large Inputs.—W. I. G. Page, p. 267.
- An Empirical Equation for Determining the d^2I_d/dV^2 of Detectors.—Sylvan Harris, p. 629.
- Double-valued Characteristics of a Resistance-coupled Feed-back Amplifying Circuit.—P. B. Carwile, p. 570.
- Dynamic Resistance; the Tuned Circuit in its Relationship to Receiver Design.—A. L. M. Sowerby, p. 267.
- A Generalised Analysis of the Triode Valve **Equivalent Network**.—F. M. Colebrook, p. 149.
- The Triode Valve **Equivalent Network**.—F. M. Colebrook, p. 628.
- Filtering Antennas and Filter-Valve Circuits.—J. Plebanski, p. 266.
- Improvements in Electric Filters, p. 629.
- The Design of Wave Filters.—W. Proctor Wilson, p. 571.
- Theorie der elektrischen Schwingungssiebe (Theory of Oscillation Filters).—H. Schulz, p. 629.
- Vector Presentation of Broad-Band Wave Filters.—R. F. Mallina and O. Knackmuss, p. 326.
- Transformers as Band Pass Filters.—E. K. Sandeman, p. 447.
- Erzwungene Schwingungen eines linearen Systems zweiter Ordnung (Forced Oscillations of a Linear System of the Second Order).—B. D. H. Tellegen, p. 571.
- Forced Undamped Electric Oscillations in Coupled Circuits.—A. Petrovsky, p. 571.
- Forced Electric Oscillations in Three Circuits with Electromagnetic Coupling.—W. J. Sette and R. E. Martin, p. 630.
- Sur les Oscillations d'Ordre Supérieur d'un Circuit Oscillant (The Higher Frequencies of an Oscillating Circuit).—Chenot, p. 206.
- Eine Beobachtung bei Versuchen zur Bestimmung der Frequenzmodulation von Rundfunksendern (A Point Noticed in Tests to determine the Frequency Modulation of Broadcasting Transmitters).—F. Gerth and W. Scheppmann, p. 447.
- Frequency Multiplication by Shock Excitation.—E. A. Guillemin and P. T. Rumsey, p. 447.

- Der Parallelkondensator in Frequenzvervielfachungs-Schaltungen (The Parallel Condenser in Frequency-multiplying Circuits).—G. Hilpert and H. Seydel, p. 207.
- The Parallel Condenser in Frequency-multiplying Circuits.—Hilpert and Seydel: Kramer, p. 630.
- Note sur le Calcul des Etages multiplicateurs de Fréquence à Triodes (Note on the Calculation of Triode Frequency-multiplying Stages).—J. Marique, p. 325.
- Frequenzrückkopplung (Frequency Reaction).—H. E. Hollmann, p. 571.
- On the Variation of Generated Frequency of a Triode Oscillator due to Changes in Filament Current, Grid Voltage, Plate Voltage, or External Resistance.—K. B. Eller, p. 205.
- The Frequency Departure of Thermionic Oscillators from the "LC" Value.—S. W. C. Pack, p. 628.
- Constantes caractéristiques des Générateurs électriques (Characteristic Constants of Electric Generators).—E. M. Galvez, p. 629.
- Grid Losses in Power Amplifiers.—E. S. Spitzer, p. 505.
- Über die Konstruktion des harmonischen Mittels (Graphic Construction for the Harmonic Mean).—H. Reppisch, p. 631.
- The Heartbeat considered as a Relaxation Oscillation, and an Electrical Model of the Heart.—B. van der Pol and J. van der Mark, p. 42.
- Sur les Puissances et Hormanances mutuelles des Courants alternatifs non sinusoidaux (On the Mutual Powers and "Hormanances" of Non-sinusoidal Alternating Currents).—A. Blondel, p. 507.
- Untersuchungen an Drosseln mit geschlossenenen Hypernik-Kern (Investigations on Chokes with Closed Hypernik Cores).—P. Hermanspann, p. 326.
- Compensation for Inner Valve Capacities (German Patent 464,096, Koomans), p. 42.
- Über den Zwischenkreisröhrensender mit stark gedämpftem Sekundärkreis (On the Intermediate Circuit Valve Transmitter with Strongly Damped Secondary Circuit).—Y. Watanabe, p. 506.
- Sul Funzionamento del Triodo con forte Accoppiamento Magnetico a Nucleo di Ferro fra Circuito di Placcia e Circuito di Griglia (On the Action of the Triode with Strong Magnetic Coupling through an Iron Core between Grid and Anode Circuits).—O. M. Corbino, p. 570.
- Les Caractéristiques et la Stabilité des Circuits ferrorésonants—Circuits oscillants comportant des Bobines à Noyaux de Fer (The Characteristics and Stability of "Ferro-resonant" Circuits—Oscillating Circuits including Iron-Cored Coils).—E. Rouelle, p. 571.
- Über die selbsterregten Schwingungen in Kreisen mit Eisenkernspulen (Self-excited Oscillations in Circuits containing Iron-cored Coils).—H. Winter-Günther, p. 630.
- Les Caractéristiques des Circuits contenant une Bobine d'inductance à Noyau de Fer et des Condensateurs (Characteristics of Circuits containing Iron-cored Inductances and Condensers).—P. Kalantaroff, p. 326.
- Oscillazioni proprie del Triodo in Accoppiamento magnetico (Natural Oscillations of a Triode with Magnetic Coupling).—R. Malagoli, p. 389.
- The Mathematical Theory of the Magnetic Field Round a Circular Current, and Allied Problems.—A. Russell, p. 507.
- Die Magnetische Feldstärke in der Ebene einer Streindurchflossenen Kreisfläche (The Magnetic Field Strength in the Plane of a Circular Surface Traversed by a Current).—L. Fleischmann, p. 268.
- The Response of H.F. Circuits to Steady and Transient Modulation.—W. B. Medlam, p. 325.
- Die Negadyntschenzung (The "Negadyne" Circuit).—R. H. Elsner, p. 506.
- On Negative Resistance.—M. A. Bontsch-Bruievitch, p. 268.
- Neutralisation des Resonanz-Verstärkers (Neutralisation of the Resonance Amplifier).—K. Schlesinger, p. 267.
- Non-reactive Coupling, p. 389.
- On the Behaviour of Networks with "Normalised" Meshes.—E. A. Guillemin and W. Glendinning, p. 268.
- The Theory of Oscillations as altered by Radio-telegraphic Development.—J. Zenneck, p. 207.
- Output Characteristics of Thermionic Amplifiers.—B. C. Brain, p. 388.
- Über die Höchstleistungen und Verzerrungen bei Endverstärkern (On Maximum Output, and Distortion, in Power Amplifiers).—H. Bartels, p. 388.
- Über die Maximalleistungen von Schutznetzleistungsröhren (On the maximum Output of Screen-Grid Power-amplifier Valves).—H. Bartels, p. 446.
- Oscillation Power Output of a Triode System and Principle of its Optimum Design. Part I.—Oscillation Power Output.—E. Takagishi, p. 628.
- Équilibres Instables et Régimes Statiques Parasites dans les Circuits Électriques Associés aux Triodes (Conditions of unstable equilibrium and of parasitic disturbances in electric circuits associated with 3-electrode valves).—I. Podlasky, p. 148.
- A Complex Pendulum driven by Two Pendulums having Commensurate Periods.—H. M. Browning, p. 326.
- Phase Compensation.** I.—A Simple Account. II.—Design of Phase Compensating Networks. III.—The Nyquist Method of Measuring Time Delay.—E. K. Sandeman, A. R. A. Rendall, Sandeman and I. L. Turnbull, p. 571.
- Potential Difference and Electromotive Force.—E. A. Biedermann, p. 630.
- Über Maximalleistungen von Verstärkerrohren (The Maximum Power Output of Amplifier Valves).—A. Förstmann and E. Schramm, p. 148.
- Push-Pull Amplification:** the Use of Resistance-Capacity Coupling.—E. Augtige, p. 505.
- Push-Pull Amplification:** the Use of Resistance-Capacity Coupling.—E. Augtige: P. G. Davidson, p. 570.
- Vierpole (Quadrupoles).—W. Cauer, p. 630.
- Diagramme zur Berechnung von Vierpolen konstanten Wellenwiderstandes (Diagrams for the Calculation of Quadrupoles of Constant Impedance).—V. Gandtner and G. Wohlgemuth, p. 630.
- Zur Theorie des rückgekoppelten Röhrensenders (On the Theory of the Reactively-coupled Valve Oscillator).—F. Kirschstein, p. 506.
- Reciprocal Theorems in Radio Communication.—J. R. Carson, p. 506.
- Reciprocal Theorem Reservations when applied to Wireless.—J. C. Schelleng, p. 629.
- Reciprocity in Electromagnetic, Mechanical, Acoustical, and Interconnected Systems.—S. Ballantine, p. 506.
- Reduction of Distortion in Anode Rectification.—A. G. Warren, p. 569.
- Aids to the Numerical Solution of Rectification Problems.—W. A. Barclay: A. G. Warren, p. 629.
- An Analysis of Triode Valve Rectification.—S. E. A. Landale, p. 569.
- Effect of Anode-grid Capacity in Anode-bend Rectifiers; Part I.—E. A. Biedermann, p. 206.
- Effect of Anode-grid Capacity in Anode-Bend Rectifiers.—E. A. Biedermann, p. 388.
- The Effect of Regeneration on the Received Signal Strength.—B. van der Pol, p. 570.
- Regenerative Coupling Devices in Audio Amplifiers.—J. K. Clapp, p. 149.
- Good Radio Reproduction (Anode-Feed Resistance System), p. 571.
- High Frequency Resistance: What it is and Whence it comes: Loss of Energy due to Dielectric.—A. L. M. Sowerby, p. 149.
- Verstärkungsmessungen am rückgekoppelten Widerstandsverstärker. Konstruktion eines kempensierten Verstärkers mit gerader Frequenzkurve (Amplification Measurements on the Reactively-coupled Resistance Amplifier. Construction of a Compensated Amplifier with Straight-line Frequency Characteristic).—H. G. Baerwald, p. 446.
- A Method of Treating Resistance-stabilised Radio-frequency Amplifying Circuits.—B. L. Snavely and J. S. Webb, p. 207.
- Diagramme für die Parallelschaltung beliebiger Scheinwiderstände (Diagrams for the Connection in Parallel of a number of Virtual Resistances).—H. Rukop, p. 630.
- Une curieuse Conséquence de la Résonance d'un Circuit oscillant (A Curious Result of Resonance in an Oscillating Circuit).—A. Curchod, p. 507.
- Établissement du Courant dans une Série de Circuits résonants couplés entre eux par l'intermédiaire de Lampes Triodes (Calculation of the Current in a Series of Resonant Circuits coupled by 3-Electrode Valves).—G. Favard, p. 149.
- Circuit Analysis Applied to the Screen-Grid Tube.—J. R. Nelson, p. 268.
- Detection Characteristics of Screen-Grid and Space-Charge-Grid Tubes.—F. E. Terman and B. Dysart, p. 446.
- The Forces Acting on Conductors Surrounded by Magnetic Screens.—J. H. Morecroft and A. Turner, p. 507.
- The Definition of Selectivity.—T. M. Colebrook, p. 629.
- Théorie des gekoppelten Schwingungskreises mit Selbststeuerung (Theory of the Coupled Circuit with Self-Excitation).—Y. Watanabe, p. 565.
- The Condition of Self-oscillation of a General Triode System.—P. S. Bauer, p. 206.
- Das Raumladeneinzrohr als rückgekoppelter Widerstandverstärker in theoretischer Behandlung (The Space-Charge Valve as Resistance Amplifier with Reaction).—H. G. Baerwald, p. 570.
- Le Mécanisme de la Stabilisation des Oscillations dans un Oscillateur à Lampes (The Mechanism of the Stabilisation of Oscillations in a Valve Oscillator).—J. Mercier, p. 325.
- Étude d'un Système oscillant : Superregeneration (Study of an Oscillating System : Super-regeneration).—T. Konteschweller, p. 388.
- General Solution for High Frequency Transformer and Oscillating Systems.—T. J. Hodgkinson, p. 630.
- Verstärkertransformatoren (Amplifier Transformers).—M. Osnos, p. 505.
- Über Verstärkertransformatoren (On Amplifier Transformers).—R. Gurtler, p. 505.
- Aperiodische Hochfrequenztransformatoren (Aperiodic H.F. Transformers).—H. Bryczynski, p. 629.
- Le Transformateur à Basse Fréquence "Philips" (The "Philips" L.F. Transformer).—A. van Sluiters, p. 326.

- Note sur les Transformateurs Intermédiaires de Basse Fréquence (Note on Inter-valve L.F. Transformers).—P. K. Turner, p. 268.
- Les Transformateurs Intermédiaires en Basse Fréquence (Inter-valve L.F. Transformers).—R. Jouast, p. 41.
- Sur les Transformateurs Intermédiaires et la Reproduction sans Distorsion (Intermediate Transformers and Distortionless Reproduction).—I. Podlasky, p. 388.
- Optimale Induktivität von Schwachstrom-transformatoren (Optimum Inductance of "Small Current" Transformers).—G. Pfeifer, p. 388.
- Transformers.**—See also under Reception and Subsidiary Apparatus. The Tuned Grid Circuit: Parallel Choke Feed Circuit in H.F. Amplifiers.—A. L. M. Sowerby, p. 571.
- The Problem of "Turn-over."—M. Reed, p. 447.
- Zur Frage über die Anlaufvorgänge im Röhrengenerator (The Starting-up Processes in the Valve Generator).—G. Ostroumoff, p. 325.
- TRANSMISSION.**
- Über die Intensität und Zusammensetzung der Strahlung von verschiedenen Punkten des Massenstrahlers (On the Intensity and Composition of the Radiation from Different Points of the "Agglomerate-Radiator").—A. G. Arkadiewa, p. 508.
- L'Alimentation des Postes émetteurs radio-électriques à Bord des Avions (Current Supply for Aircraft Radio Transmitters).—J. Morel, p. 448.
- On the Determination of the Optimum Radiation Angle for Horizontal Antennas.—A. Meissner and H. Rothe, p. 209.
- Über Barkhausen-Kurz-Wellen (Barkhausen-Kurz Waves).—P. Knipping, p. 571.
- Generation of Short Electric Waves by the Method of Barkhausen and Kurz.—F. Tank and E. Schiltknecht, p. 389.
- Experimentelle Untersuchungen über die Barkhausen-Kurzschwungen in Magnetischen Feldern (Experimental Investigations of the B.-K. Oscillations in Magnetic Fields).—M. Forró, p. 269.
- Broadcast Power Amplifiers.—W. T. Ditcham, p. 508.
- H.F. Control by Grid Direct Current.—Krüger and Plendl, p. 389.
- The Construction and Operation of a 3,500-kc. Crystal-controlled Phone.—E. W. Springer, p. 151.
- Directional Antenna, p. 327.
- Eine Versuche mit dem Elektrolytischen Generator (Some Experiments with the Electrolytic Generator).—V. M. Schulgin, p. 508.
- Energy-transfer in Short Wave Transmitters, p. 508.
- Fading Elimination, p. 327.
- Transmission on Two Waves for the Elimination of Fading, p. 509.
- The Generation of Oscillations of Constant Frequency, p. 572.
- Über die Instabilität der Frequenz von Röhrengeneratoren und deren Stabilisierung (the Frequency-instability of Valve Generators, and their Stabilisation).—W. Lazarev, p. 270.
- Frequency Multiplication by Iron-cored Chokes, p. 327.
- Frequenzrückkopplung (Frequency Reaction).—H. E. Hollmann, p. 572.
- Vacuum Tubes as Oscillation Generators.—D. C. Prince and F. B. Vogles, pp. 239 a d 333.
- Generation of Short waves, p. 390.
- Über die neuere Entwicklung des Maschinensenders für kleine Wellenlängen (New Developments in H.F. Generators for Short Wavelengths).—W. Hahnenmann, p. 102.
- Elimination of Disturbances in H.F. Generators, p. 509.
- Prevention of Disturbance Effects in H.F. Generators, p. 327.
- Hand Generator (40-watt) with Automatic Signalling, p. 270.
- Telegraphy Control with Valve Idle Load, p. 448.
- Control of Idle Load in Keying, p. 509.
- The Short-Wave Limit of Magnetron Oscillations.—K. Okabe, p. 447.
- Modulating System for Separately Excited Telephone Transmitting Set, p. 389.
- Frequency Modulation.—G. H. Makey, p. 509.
- Frequency Modulation.—N. E. Holmlab, H. Lauer, G. H. Makey, p. 572.
- Modulation Methods, p. 208.
- Measurement of Modulation, p. 150.
- Principles of the Calculation of Grid Modulation.—Kliatskin and Minz, p. 572.
- Modulation dans le Circuit de Plaque (Anode-circuit Modulation).—J. Marcot, p. 150.
- A Poor Man's M.O.P.A.—J. T. McCormick, p. 208.
- A Study of the Three-Electrode Vacuum-Tube Oscillator.—Conditions for Maximum Current.—E. T. Cho, p. 448.
- Improvements in Valve Oscillator Circuits, p. 42.
- Oscillation Power Output of a Triode System and Principle of its Optimum Design.—E. Takagishi, p. 631.
- Prevention of Parasitic Oscillations in Short Wave Oscillators, p. 509.
- Über den Einfluss des Phasenmasses und der Dämpfung bei der Übertragung von modulierten Wellen (The Influence of Phase Relations and Damping on the Transmission of Modulated Waves).—H. Bartels, p. 150.
- A Piezo-controlled Valve Generator, p. 327.
- A Short-wave Piezo-controlled Transmitter, p. 327.
- Push Pull Transmitters.—J. J. Lamb, p. 151.
- Push-Pull Short Wave Generating Circuit, p. 572.
- Short Wave Generation with a Quartz Oscillator, p. 149.
- An Examination of A.C. Plate Supply: Considerations Governing the Use of Self-rectification.—R. A. Hull, p. 327.
- Secrecy System for Signalling (N. Zealand Patent 61093, Standard Telephones and Cables, Australasia), p. 102.
- Increasing the Efficiency of a Short-Wave Transmitter (German Patent 461,526, Telefunken), p. 43.
- Signalling by Frequency Modulation.—N. E. Holmlab, p. 390.
- Investigation of the Stabilisation of a Short Wave Oscillator with Negative Resistance by Means of a Special Stabilising Electromotive Force.—P. N. Ranau, p. 270.
- Multiphase A.C. High-Frequency Transformer, p. 572.
- Various Transmitter Patents.—Telefunken Company: J. Fuchs, p. 572.
- The Oscillator-Amplifier Transmitter.—R. A. Hull, p. 150.
- Ein Sender für 3-m. Wellen (A 3-metre Wave Transmitter).—A. Pfeifer, p. 631.
- A 28-Megacycle Crystal-controlled Transmitter.—H. A. Chinn, p. 150.
- Adapting Medium and High-powered Self-excited Transmitters for 1929 Service.—R. A. Hull, p. 150.
- Recent Developments in Low Power and Broadcasting Transmitters: Discussion.—E. L. Nelson, p. 208.
- Eenige Experimenten in Verband met de Toepassing van nieuwe Triodenschemas bij Zenders (Some Experiments in connection with the Design of New Transmitting Valve Circuits).—G. W. White, p. 572.
- [Ultra] High Frequency A.C. Generation.—E. D. McArthur, p. 42.
- Über ungedämpfte elektrische Ultrakurzwellen mit Demonstrationen (On Ultra-short Undamped Electric Waves, with Demonstrations).—K. Kohl, p. 327.
- Über kurze ungedämpfte elektrische Wellen (On [Ultra] Short Undamped Electric Waves).—K. Kohl, p. 269.
- [Ultra] Short Wave Generation, p. 448.
- Die Erzeugung Kurzester Elektrischer Wellen mit Elektronenröhren (The Generation of Ultra-Short Electric Waves by Electronic Valves).—H. E. Hollmann, pp. 207, 268 and 326.
- Zur Frage der Erzeugung kurzer elektromagnetischen Wellen (The Production of [Ultra] Short E.M. Waves).—M. Grechowa, p. 42.
- On the Production of Intense Undamped Electric Waves of Ultra Short Wavelengths.—K. Okabe, p. 42.
- Die Erzeugung von kurzwelligem Ungeradimpfungen bei Anwendung des Magnetfeldes (The Production of Ultra-Short Wave Undamped Oscillations by the Use of a Magnetic Field).—A. A. Slutskin and D. S. Steinberg, p. 326.
- Zum Problem der Erzeugung kurzer elektrischer Wellen durch Bremsfelder (On the Problem of the Production of [Ultra] Short Electric Waves through "Brake-fields").—H. E. Hollmann, p. 389.
- Overzicht Betreffende de Opwekking van Ultra-korte Gelven (Survey of Methods of Generating Ultra-short Waves).—B. D. H. Tellegen, p. 572.
- Messungen an Kurzwellenröhren (Measurements on [Ultra] Short Wave Valves).—H. Hornung, p. 289.
- Study and Measurement of Ultra Short Waves.—B. Mazumdar, p. 327.
- Neue Erfahrungen bei Elektrischen Kurzwellen (New Experiments with [Ultra] Short Waves).—K. Kohl, p. 269.
- Über einen Röhrensender für Kurze ungedämpfte Wellen (A Valve Transmitter for [Ultra] Short Undamped Waves), p. 43.
- Valves for Generating Ultra-short (30 cm.) Waves.—W. Wagner, p. 327.
- Reichweitenversuche mit Zentimeterwellen (Range Tests with Centimetre Waves).—W. Ludeña, p. 507.
- Ultra-short Waves (15-20 cms.).—G. Beauvais, p. 326.
- Sur les Ondes de 10 à 20 Centimètres (10-20 cm. Waves).—G. Beauvais, p. 448.
- Gerichtete Telefonie mit ungedämpften 14-cm.-Wellen (Beam Telephone on 14 cm. Undamped Waves).—K. Kohl, p. 538.
- 1.7-12 metre Generating Circuits.—W. J. Lee, p. 508.
- Über eine Methode zur Erzeugung von sehr kurzen elektromagnetischen Wellen (A Method for the Production of Very Short e.m. Waves).—A. Záček, p. 103.
- Sur les Oscillateurs à Ondes Très Courtes (Oscillators for Very Short Waves).—E. Pierret, p. 149.
- Sur les Ondes très courtes (Very Short Waves).—G. A. Beauvais, p. 149.
- Essais sur Ondes Très Courtes (Trials on Very Short Waves).—Ritz, p. 150.
- Reichweitenversuche und Dämpfungsmessungen im Gebiet sehr kurzer Wellen (Range Tests and Damping Measurements for Very Short Waves).—A. Esau, p. 150.
- Dependence of the Range of Very Short Waves on the Height of the Transmitter above the Earth.—H. Fassbender and G. Kurlbaum, p. 270.
- Der Wehnelt-Unterbrecher als Generator elektromagnetischer Schwingungen (The Wehnelt Break as an Oscillation Generator).—W. M. Schulgin, p. 42.

RECEPTION.

- Le Réglage des Postes Récepteurs radio-électriques, et le Nouveau Dispositif de Réglage "Valundia" (The Adjustment of Radio-electric Receivers, and the New "Valundia" Scheme of Adjustment).—J. L. Routin, p. 151.
- Short Wave Reception Difficulties of Aircraft, p. 573.
- An Aircraft Radio Receiver for Use with Rigid Antenna.—F. H. Drake, p. 270.
- Receiving Sets for Aircraft Beacon and Telephony.—H. Pratt and H. Diamond, pp. 210 and 272.
- Ein neuer Kraftverstärker (A New Power Amplifier).—Telefunken Company, p. 634.
- Reception and Retransmission on the Same Antenna.—V. A. Pavlov, p. 272.
- Receiver with Aperiodic High-frequency Amplification.—M. v. Ardenne, p. 510.
- Die aperiodische Verstärkung von Rundfunkwellen (The Aperiodic Amplification of Broadcast Waves).—M. v. Ardenne, p. 448.
- Weitere Arbeiten über die aperiodische Verstärkung von Rundfunkwellen (Further Work on the Aperiodic Amplification of Broadcast Waves).—M. v. Ardenne, p. 633.
- Aperiodic H.F. Amplification with Modern Valves.—F.L.D., p. 209.
- Atmospheric Elimination, p. 510.
- Automatische Lautstärkeregulation (Automatic Volume Control).—H. Kröncke, p. 210.
- Über automatische Amplitudenbegrenzer (Automatic Amplitude Limiters).—H. F. Mayer, p. 104.
- Über die Dynamik der Schalttägigen Verstärkungsregler (The Dynamics of the Automatic Amplification-Regulator).—K. Küpfmüller, p. 104.
- Automatic Volume Control by R.F. or L.F. Voltage.—G. L. Beers; F. K. Vreeland, p. 631.
- Impressions of the Berlin Show, p. 633.
- Buyers' Guide, 1928-29.—The Wireless World Reference List of Receiving Sets, p. 43.
- Die Umdrehung von Batterie-Empfängern auf Heizung mit Wechselstrom ohne Umbau des Empfängers (Changing-over Battery-supplied Receivers to A.C. Filament Supply without Dismantling), p. 272.
- Aerial Coupling for Short-Wave Reception.—T. S. Rangachari, p. 328.
- Ein hochselektiver Kristall-Empfänger grosser Lautstärke (A Highly Selective Crystal Receiver giving Great Signal Strength).—R. Vieweg, p. 633.
- Improving Detector Efficiency.—W. B. Medlam, p. 449.
- The Performance of Valve Detectors.—W. B. Medlam and U. A. Oschwald, p. 272.
- Detectors, Detection, etc.—See also under Properties of Circuits and Valves and Thermionics.
- Diode Rectifier.—P. G. Davidson, p. 151.
- The Diode Rectifier.—H. L. Kirke, p. 151.
- Automatische und Fernbedienung von Radio-Empfangsgeräten (Automatic and Distant Control of Radio Receivers).—C. Lübben, p. 634.
- The Distortionless Diode; Practical Applications of the Two-electrode Rectifier.—H. F. Smith, p. 103.
- On the Distortionless Reception of a Modulated Wave and its Relation to Selectivity, p. 43.
- Disturbance of Broadcast Reception by Heterodyne Apparatus.—F. Vilbig, p. 633.
- The New Empire Receiver: A Stable Set Covering all the Short Wavelengths.—H. F. Smith, p. 152.
- The Europa III; A Post-Exhibition Receiver.—F. H. Haynes, p. 43.
- Exhibitions, Shows, etc.—See also under Miscellaneous.
- Un Régulateur Anti-fading (An Anti-Fading Regulator).—L. Chretien, p. 610.
- Selbsttätige Regelung von Schwunderscheinungen beim Kurzwellenverkehr (Automatic Compensation for Fading in Short Wave Communication).—Thierbach, p. 632.
- Fading Elimination.—See under Propagation of Waves.
- Field Strengths.—See under Propagation of Waves.
- Ia Triggrille à fonctions multiples (The Five-Electrode Valve for Multiple Functions).—R. Barthélémy, p. 152.
- Salon de T.S.F.: The Radio Situation in France To-day, p. 43.
- Das Problem der ökonomischsten Vielfachtransponierung (The Problem of the most economic Multiple Frequency-Changing Reception).—F. Aigner, pp. 209 and 271.
- On Heterodyne Reception.—I. Taninura, p. 509.
- A Method of Diminishing Interference in Radio Telegraphy.—G. A. Ostrovou, p. 272.
- A Study of Heterodyne Interference.—J. V. L. Hogan, p. 633.
- Empfangsstörungen durch ein Heizkissen (Interference due to an electrically heated cushion), p. 103.
- Interference, Noise, etc.—See also Miscellaneous.
- Broadcast Receivers: Loewe Type O.E. 333 with Multi-electrode Valve: A Low-priced Local Station Receiver of Novel Design and Construction, p. 152.
- Marconiphone Short-Wave Set: a Sensitive Short-Wave Receiver adaptable for Long Waves, p. 43.
- Neue Empfangsschaltungen mit neuen Mehrfachröhren (New Receiving Circuits with New Multiple Valves).—M. v. Ardenne, p. 210.
- Some Uses for the Neutralising Condenser, p. 510.
- Reducing Noise in Broadcast Receivers.—R. Wm. Tanner, p. 510.
- Amplifier Noises; Setting a Limit to Long-Distance Frame-Aerial Reception.—A. L. M. Sowerby, p. 510.
- The Pentode and Power Amplification: Some Important Considerations regarding the Output Circuit: Precautions necessary to avoid Excessive Peak Voltages.—L. G. A. Sims, p. 152.
- Permissible Grid Swing with a Pentode; How the Valve and the Loud Speaker may cause Rectification.—N. W. McLachlan, p. 43.
- The Modern Portable, a Review of Current Commercial Practice. Representative Portables Reviewed. Buyers' Guide to Portable Sets, p. 450.
- Die Vorrière bei Transistor-Empfängern (The Preliminary Input Valve for Frequency-Change Receivers).—O. Kries, p. 211.
- Progress in Radio Receiving during 1928.—A. N. Goldsmith, p. 210.
- The Theory of Push-Pull; Consideration of Loud Speaker Windings for Optimum Performance.—N. W. McLachlan, p. 211.
- The Theory of Push-Pull; Part III.—N. W. McLachlan, p. 391.
- Recherche de la Qualité acoustique dans les Récepteurs sélectifs (Search for good quality in selective Receivers).—P. Borias, p. 152.
- La Qualité des Réceptions radiophoniques (Quality in Radiotelephonic Reception).—B. Decaux, p. 328.
- La Qualité de la Réception Radiophonique (Quality of Radiotelephonic Reception).—P. David, pp. 328 and 390.
- Quarzsteuerung von Kurzwellen-Empfängern (Quartz Control of Short Wave Receivers).—P. v. Handel, K. Kruger and H. Plendl, p. 573.
- A Selective 8-Valve Receiver for Medium and Long-Wave Telegraphy.—F. M. Coeckrook, p. 449.
- Der Saba-Kurzwellen-Empfänger (The "Saba" Short Wave Receiver).—H. Gunther, p. 450.
- Ein 3 m. Empfänger: Frequenzbereich n = 94 bis 111 Millionen (A Receiver for 3 m. Wavelength: Frequency Range 94-111 Millions).—H. Rutenbeck, p. 211.
- Broadcast Receivers—Philips Type 2802. A Four-valve Set from 10 to 2,400 Metres, p. 450.
- Sonic Characteristics of Modern Radio Receivers and their Relation to Broadcast Regulation.—J. M. Hull, p. 632.
- Registrierung von radiogegebenen Zeichen (Recording Wireless Signals).—B. Brockamp, p. 510.
- Resistance Control of Regeneration.—B. Dudley, p. 573.
- Relay on High Amplification Circuit.—Kruger and Plendl, p. 389.
- Un Relais-Amplificateur pour Ondes Courtes (A Relay-Amplifier for Short Waves).—J. Vivie, p. 151.
- A Remote Tuning Control for Radio Receivers.—W. Faas, p. 573.
- The Effect of Frequency on the Value of High Resistances of the Grid Leak Type.—W. Jackson, p. 104.
- Rechteckige Verformung von Resonanzkurven nach einem neuen Prinzip, und ihre Anwendung beim Empfang sehr kurzer Wellen (The Rectangular Formation of Resonance Curves on a New Principle, and its Use in the Reception of Very Short Waves).—H. E. Kallmann, p. 509.
- More Amplification from Screen-Grid Valves; Doubling the Stage Gain and Maintaining Stability.—A. L. M. Sowerby, p. 329.
- More Amplification from Screen-Grid Valves, p. 449.
- Screen Grid Volts: Hints on Regulating and Measuring Voltage.—"Radioiphare," p. 152.
- Mise sous Écran des Bobines cylindriques (Screening of Cylindrical Coils).—M. v. Ardenne, p. 450.
- How Much Selectivity?—J. E. Smith, p. 328.
- Selectivität und Fernempfang (Selectivity and Distant Reception).—M. v. Ardenne, p. 391.
- Note on the Problem of Selectivity Without Reducing the Intensity of the Sidebands.—W. B. Lewis, p. 391.
- The Selectivity of a Receiving Circuit coupled to a Detuned Aerial.—R. Rechnitzer, p. 511.
- Sets of the Season: A Comparative Analysis of This Year's Designs, p. 43.
- Kurze und lange Wellen der drahtlosen Telegraphie (Short and Long Waves in Wireless Telegraphy).—F. Kiebitz, p. 391.
- Improving Short-Wave Phone Reception.—R. A. Hull, p. 329.
- Récepteur pour Sous-Marins (Receiver for Submarines), p. 328.
- Radio Reception and Sun Spots.—H. T. Stetson: G. W. Pickard p. 573.
- A Note on Some Interfering Oscillations Experienced in a Supersonic-Heterodyne Receiver, p. 103.
- A Double Super-heterodyne: A Description of a Receiver built by the Author.—J. F. Ramsay, p. 103.
- Recent Developments in Superheterodyne Receivers.—G. L. Beers and W. L. Carlson, p. 327.
- The Original Superheterodyne Patent.—L. Lévy, p. 632.
- Recent Developments in Superheterodyne Receivers: Discussion.—G. L. Beers and W. L. Carlson: F. K. Vreeland, p. 631.
- Sur le Calcul des Amplificateurs à Moyenne Fréquence pour Superbétehodyne (The Calculation of Medium Frequency Amplifiers for Superheterodyne Reception).—Boella, p. 152.

- Super-regeneration with a Push-Pull Oscillator.—L. D. Inskeep, p. 450.
- Super-regenerative Receiver for Ultra-short Waves.—Fassbender and Kurlbaum, p. 272.
- Waveband Switching—from Short to Long Waves without Changing Coils.—H. F. Smith, p. 43.
- The Receiving System for Long-Wave Transatlantic Radio Telephony.—A. Bailey, S. W. Dean and W. T. Winttingham, p. 209.
- The Receiving System for Long-Wave Transatlantic Radio Telegraphy : Discussion, p. 272.
- Radio Frequency Transformers as Applied to Screen-Grid Valves.—S. Butterworth, p. 449.
- The Design of H.F. Transformers : Part I.—The Essential Theory Concerning the Interdependence of Valve and Transformer.
- Part II.—Some Experimental Data.—A. L. M. Sowerby, p. 449.
- The Frequency Dependence of Amplifier Transformers.—Matthes and Ganswindt, p. 276.
- The Design of Transformers for Audio-frequency Amplifiers with Pre-assigned Characteristics.—G. Koehler, p. 216.
- Input Transformers of Distortionless Amplifiers.—Feldtkeller and Bartels, p. 334.
- Transformers.**—See also under Properties of Circuits and Subsidiary Apparatus.
- Two-Circuit Two :** Selectivity without Loss of Signal Strength.—H. F. Smith, p. 210.
- Variable Inductance Radio Tuners.—T. E. Lander, p. 633.
- On the Amplification and Detection of Very Short Waves with Diodes.—R. Chabot, p. 633.
- Lautstärke Regelung (Volume Control).—H. Ziegler, p. 632.
- Radio Receiver Volume Control.—N. W. McLachlan, p. 43.
- Der Riedelche Sperrkreis (The Riedel Wave-Stopper).—H. Bock, p. 211.
- The Wireless World Record III.—A. L. M. Sowerby and H. F. Smith, p. 631.

AERIALS AND AERIAL SYSTEMS.

- On the Determination of the Optimum Radiation Angle for Horizontal Antennæ.—Meissner and Rothe, p. 212.
- Système Français d'Aériens-Projecteurs pour Emissions sur Ondes Courtes (French Beam System for Short Waves).—H. Chireix, p. 574.
- Versuche über Richtantennen bei kurzen Wellen (Experiments with Short Wave Beam Aerials).—W. Moser, p. 574.
- Die Bündelung der Energie kurzer Wellen (Beam-Concentration of the Energy of Short Waves).—O. Böhm, p. 104.
- High Angle Radiation : The Experimental 28,000 kc. (10-Metre) Beam Antenna at ICCC.—P. S. Hendricks, p. 152.
- French System of Directional Aerials for Transmission on Short Waves.—H. Chireix, p. 391.
- On the Calculation of the Radiation of Directional Antennæ : and On the Radiation of a Simple Antenna in the Presence of a Reflecting Wire.—A. Pistolkors, p. 272.
- A Directional Untuned Short Wave Receiving Antenna.—G. A. Ostrovskiy, p. 574.
- Directional Properties of Wireless Receiving Aerials.—D. Burnett, p. 43.
- Über die Richtcharakteristik von in einer Ebene angeordneten Strahlern (On the Directional Characteristics of Radiators arranged in a Plane).—H. Stenzel, p. 450.
- Directional Antenna.** p. 327.
- Directive Aerial System, p. 511.
- Increasing Transmitting Antenna Efficiency.—S. L. Seaton, p. 212.
- Feeding of an Extra-high Frequency Power through a Metallic Pipe.—E. Takagishi, E. Iso, and S. Kawazoe, p. 511.
- Die Übertragung der Energie vom Sender zur Antenne bei kurzen Wellen (The Feeding of Energy from Transmitter to Aerials, for Short Waves).—W. Moser, p. 105.
- Untersuchung der Brauchbarkeit von Rahmenantennen für Sendezwecke (Investigation of the Utility of Frame Aerials for Transmitting Purposes).—W. Nestel, p. 391.
- Tube Frame Aerial, p. 391.
- Neue Rahmenkonstruktionen (New Designs of Frame Aerials).—M. v. Ardenne, p. 450.
- Improving the Frame Aerial.—M. v. Ardenne, p. 634.
- Aerials and Gales, p. 153.
- Isolateurs suspendus : Étude de l'Influence de la Longeur des Attachés (Suspended Insulators ; the Influence of the Length of the Connecting Links).—G. Viel, p. 329.
- Suspension Insulators for H.T. Transmission Lines.—C. S. Garland, p. 153.

Influence of Atmospheric Pollution on Performance of Line Insulators.—B. L. Goodlett and J. B. Mitford, p. 152.

Development of Glass Insulators for Transmission Schemes.—N. E. North, p. 153.

Beitrag zur Beschreibung des Interferenzgebietes in der Nähe von Empfangs-Antennen (A Contribution to the Characterisation of the Interference Zone in the Neighbourhood of a Receiving Aerial).—M. Dickmann, p. 451.

What Length Antenna ?—J. J. Lamb, p. 152.

Zur mechanischen Sicherheit von Freileitungseisenen (The Mechanical Safety of Open Line Cables).—A. Fuchs and H. Wiesenthaler, p. 153.

Experiments with Multi-feed Aerials.—W. H. B. de M. Leathes, p. 329.

Multiple Antenna Systems (Austrian Patent 109,580, Surjaninoff), p. 43.

The Mutual Impedance between Adjacent Antennas.—C. R. Englund and A. E. Crawford, p. 634.

Om stavförmiga Hertz'ska Oscillatörers sanut rätliniga och ringformiga elektriska Resonatorers egensvängningar (On the Natural Wavelengths of Hertz Rod Oscillators with Rectilinear or Cylindrical Resonators).—K. F. Lindman, p. 574.

Overhead Electric Lines.—W. B. Woodhouse, p. 272.

The Effect of the Earth on Short-Wave Radiation from Vertical and Horizontal Aerials.—G.W.O.H., p. 510.

Strahlung von Antennen unter dem Einfluss der Erdboden-eigenschaften. (A) Electric Antennæ ; (B) Magnetic Antennæ (Radiation from Antennas under the Influence of the Properties of the Ground. (A) Electric Antennæ ; (B) Magnetic Antennæ).—M. J. O. Strutt, p. 329.

The Radiation Resistance of Beam Antennæ.—A. A. Pistolkors, p. 329.

Calculation of Radiation Resistance of Antennæ Composed of Perpendicular Oscillators.—A. Pistolkors, p. 574.

Short Wave Receiving Aerials, p. 511.

The Action of a Reflecting Antenna.—L. S. Palmer and L. L. K. Honeyball, p. 634.

A Reflector System, p. 510.

Die Wirkungsweise von Reflektoren bei kurzen elektrischen Wellen (The Action of Reflectors on Short Electric Waves).—G. Gresky, p. 106.

Wave Reflectors and Directors, p. 574.

Über Drahtreflektoren (Wire Reflectors).—A. Gothe, p. 105.

The Resonance Effect of Receiving Antennæ.—C. Coston, p. 329.

Die Selektivität eines mit einer verstimmten Antenne gekoppelten Empfangskreises (The Selectivity of a Receiving Circuit Coupled to a Detuned Aerial).—R. Rechnitzer, p. 511.

Graphical Determination of Stress and Sag of Overhead Lines.—A. Thiry, p. 153.

Enclosed Loop Aerial for Submarines, p. 634.

Transmitting Aerials.—G.W.O.H., p. 211.

Radio Transmitting Aerials.—P. P. Eckersley, T. L. Eckersley, and H. L. Kirke, p. 152.

Transmitting Aerials for Broadcasting Stations.—P. P. Eckersley, T. L. Eckersley and H. L. Kirke, p. 329.

Transmitting Antennas for Broadcasting.—A. Meissner, p. 573.

The Design of Transmitting Aerials for Broadcasting Stations.—P. P. Eckersley, T. L. Eckersley, and H. L. Kirke, p. 211.

Bäume als Antennen für Reise-Empfänger (Trees as Aerials for Knapsack Receivers).—F. Zolleis, p. 212.

Die abgestimmte, induktiv gekoppelte Antenne (The Tuned, Inductively Coupled Aerial).—R. Rechnitzer, p. 510.

Die Unhomogene Belastete Antenne (The Unevenly Loaded Aerial).—A. Witt, p. 212.

Short Wave Aerial in High Vacuum, p. 511.

Influence of Weather Conditions on British Overhead Lines.—G. W. Molle, p. 511.

Wind Pressures on Wires.—W. B. Woodhouse, p. 153.

Investigations on Wind Pressure on Poles and Cables for Overhead Transmission Lines, p. 272.

The Zepp ; Facts and Figures for the Design of the Hertz Antenna with Two-wire Voltage Field.—J. J. Lamb, p. 152.

VALVES AND THERMIONICS.

Making the A.C. Heater Tube Noiseless.—A. B. Du Mont, p. 393.

Three-electrode Valves with Filaments for A.C. Heating (French Patent 640,184), p. 106.

Valve Current from the Mains : obtaining Optimum Performance with A.C. Valves ; remarkable characteristics of the new Screen Grid Valve for A.C. Mains.—E. Y. Robinson, p. 213.

The Rectification of Radio Signals by a Thermionic Tube containing Alkali Metal Vapor.—K. H. Kingdon and E. E. Charlton, p. 511.

The Operation of Radio Receiving Tube Filaments on Alternating Current. Part II.—K. H. Kingdon and H. M. Mott-Smith, Jr., p. 330.

Special Design of Anode for Cooling Purposes, p. 577.

Control of an Arc Discharge by Means of a Grid.—A. W. Hull and I. Langmuir, p. 330.

Arcs with Small Cathode Current Density.—J. Slepian and E. J. Haverstick, p. 274.

Note on the Effect of Temperature on the Auto-electronic Discharge.—N. A. de Bruyne, p. 44.

Motion of Electrons in a Valve Generating Short Electric Waves of the Barkhausen-Kurz Type.—N. Kapcov, p. 154.

Thermionic and Photoelectric Emission from Cesium at Low Temperatures.—L. R. Koller, p. 575.

Layers of Cesium and Nitrogen on Tungsten.—N. A. de Bruyne, p. 575.

Calculations on Vacuum Tubes and the Design of Triodes.—Y. Kusunose, p. 330.

- Les Capacités Internes de la Lampe à plusieurs Électrodes (Internal Capacities of the Multi-electrode Valve).—C. Rajski, p. 154.
- Incandescent Cathodes, p. 213.
- Sur la Caractéristique de la Lampe à Trois Électrodes (The Characteristic of the Three-Electrode Valve).—Ch. Jeanjaquet, p. 392.
- Alignment Valve Characteristics.—W. A. Barclay, p. 212.
- Condenser as Valve Heating Element, p. 392.
- Contact Potential Measurements with Absorbed Films.—I. Langmuir and K. H. Kingdon, p. 511.
- Detection Characteristics of Three-Element Vacuum Tubes.—F. E. Terman and T. M. Googin, p. 273.
- Detection with the Four-Electrode Tube: Discussion, p. 273.
- On the Chemical Interaction of Ions and the "Clean up" of Gases at Glass Surfaces under the Influence of the Electrical Discharge.—J. Taylor, p. 274.
- The Distribution of Electrons between the Plate and Grid of a Three Electrode Tube as determined by Positive Cæsium Ions.—J. M. Hyatt, p. 576.
- Electrodes, p. 213.
- Electron Reflection from Cobalt, and Electron Waves.—M. N. Davis, p. 392.
- On Electrons that are "Pulled Out" from Metals.—E. H. Hall, p. 392.
- Über die Befreiung des Elektrons aus der Metalloberfläche durch langsame positive Ionen (The Setting Free of an Electron from the Surface of a Metal by Slow Positive Ions).—O. Klemperer, p. 274.
- Über ein Verfahren zur Auslösung von Sekundärelektronen durch Elektronen und dessen Anwendung (A Method for Setting Free Electrons, and its Applications) and Experimentelles über den Elektron-austritt aus Metallen (Experimental Work on the Electron Emission from Metals).—F. Rother, p. 154.
- Über die Auslösung von Sekundärelektronen durch Elektronen von 1-30 Kilovolt (The Setting-free of Secondary Electrons by Electrons of 1-30 kilovolt).—E. Buchmann, p. 45.
- Messung der Wärmeentwicklung bei der Kondensation von Elektronen in Metallen (Measurement of the Heat developed by the Condensation of Electrons in Metals).—R. Violi, p. 45.
- The Effect of the Image Force on the Emission and Reflection of Electrons by Metals.—L. W. Nordheim, p. 154.
- The Measurement of e/m with a Three-Electrode Valve with Simultaneous Measurement of its Amplifying Factor.—D. S. Kothari, p. 212.
- The Thermionic Emission Constant A.—R. H. Fowler, p. 154.
- Systematic Variations of the Constant A in Thermionic Emission.—L. A. DuBridge, p. 44.
- Experimentelles über den Elektronenaustritt aus Metallen (Experimental Results on Electron Emission from Metals).—F. Rother and E. Mündler, p. 392.
- Die Theorie der Elektronenemission der Metalle. Zusammenfassender Bericht (The Theory of Electron Emission from Metals: a Survey).—L. Nordheim, p. 512.
- Further Studies in the Emission of Electrons from Cold Metals.—T. E. Stern, B. S. Gossling and R. H. Fowler, p. 512.
- Electronic Emission in a Vacuum Tube.—L. Tieri and V. Ricca, pp. 331 and 634.
- Papers on the Emission of Ions from Certain Salts (Halogen Derivatives of Lead, etc.).—J. Kahra and O. Birkenberg, p. 274.
- The Thermionic Emission from Clean Platinum.—L. DuBridge, p. 154.
- Émission thermo-ionique de Tubes de Cuivre remplis de Sel (Thermionic Emission from Copper Tubes filled with Salts).—T. Pecsalski and J. Chichocki, p. 331.
- Thermionic Emission Associated with Electrons belonging to Atoms, not with Free Electrons? p. 511.
- Thermionic Emission through Double Layers.—W. Georgeson, p. 576.
- Thermionic Emission as a Function of the Amount of Adsorbed Material.—J. A. Becker, p. 576.
- Thermionic Emission from Tungsten and the Schottky Equation.—H. Van Velzer and W. R. Han, p. 576.
- Field Currents from Points.—C. F. Eyring, S. S. Mackeown, and R. A. Millikan, p. 45.
- Die Feldkräfte auf die Glühdrähte von Elektronenröhren (The Field Forces on the Filaments of Thermionic Valves).—K. Pohlhausen, p. 106.
- Dependence of Electron Emission from Metals upon Field Strengths and Temperatures.—R. A. Millikan and C. C. Lauritsen, p. 452.
- The Increase of Thermionic Currents from Tungsten in Strong Electric Fields.—R. S. Bartlett, p. 44.
- The Effect of Electric Fields on the Emission of Electrons from Conductors.—A. T. Waterman, p. 45.
- The Temperature Dependence of Electron Emission under High Fields.—W. V. Houston, p. 274.
- Thorium- oder Acid-Röhren? (Thorium or "Acid" Filaments for Valves?)—Telefunken Company, p. 273.
- Measurements of Electrical Fluctuation Phenomena.—H. A. Wheeler, p. 512.
- Some Interesting French Valves: Unorthodox Circuits for Multi-grid Valves, p. 393.
- Die Elektronen- und Ionenströme in Gasen bei Niedrigen Drucken (Electronic and Ionic Currents in Gases at Low Pressures).—G. Spiwak, p. 392.
- Gas-Filled Thermionic Tubes.—A. W. Hull, p. 43.
- On Groups of Electrons in the Geissler Discharge.—K. G. Emeléus and W. L. Brown, p. 213.
- New German Receiving Valves, p. 212.
- Very Low Vapour Pressure Greases and Oils: their Production by Vacuum Distillation and their Use for Joints in High Vacuum Systems (10⁻⁴ mm.), for Condensation Pumps and for Liquid Air Traps, p. 274.
- Physik der Glühelktroden (The Physics of Hot Electrodes).—W. Schottky and H. Rothe, p. 106.
- Herstellung der Glühelktroden (Construction of Hot Electrodes).—H. Simon, p. 106.
- Hysteretic Effects in the Positive Emission from Hot Bodies.—H. P. Walmsley, p. 392.
- Die grundlegenden Verfahren der Glühlampen-Leuchtdrahttechnik (The Fundamental Processes of Incandescent Filament Technique).—B. Duschinsk, p. 577.
- Burn-out of Incandescent Lamps, p. 331.
- Ionic Processes and their Technical Application.—M. M. Sitnikoff, p. 575.
- Ionic Oscillations in the Glow Discharge.—L. A. Pardue and J. S. Webb, p. 153.
- Über die Ionisation durch Elektronen in einem homogenen elektrischen Felde (Ionisation by Electrons in a Homogeneous Electric Field).—M. J. Druyvesteyn, p. 274.
- Über Ionenstrahlen (On Beams of Ions).—M. Zentgraf, p. 576.
- "Konel" Metal for Valve Filaments, p. 635.
- Control of Current in a Discharge-Tube by Means of a Magnetic Field.—R. F. Earhart and C. B. Green, p. 272.
- Die experimentelle Prüfung des Maxwell'schen Geschwindigkeitsverteilungsgesetzes für Elektronen, die aus einer Glühkathode austreten (The Experimental Verification of Maxwell's Law of the Distribution of Velocities for Electrons Emitted by a Hot Cathode).—A. Deniki, p. 511.
- Un Tube amplificateur à Vapori di Mercurio (A Mercury Vapour Amplifier Valve).—G. Giannini, p. 634.
- Mica Screen for Locating the Deposition of Magnesium in Valves, p. 331.
- Methoden zur Beseitigung des Mikrophoneffektes in Verstärker-röhren (Methods for the Elimination of the Microphone Effect in Amplifier Valves).—M. v. Ardenne, p. 452.
- Badanie przebiegu elektrostatycznego w lampie Katodowej na modelu (The Investigation of Electrostatic Phenomena in Valves by Means of Models).—J. Groszkowski, p. 391.
- Multiple Valves, p. 393.
- On the Mechanism of Electron Oscillations in a Triode.—H. E. Hollmann, p. 274.
- Oscillations in Ionized Gases.—Lewi Tonks and I. Langmuir, p. 273.
- Note on "Oscillations in Ionized Gases."—L. Tonks and I. Langmuir, p. 576.
- Oxide Cathodes, p. 213.
- The Manufacture of Barium Oxide Filaments.—B. Hodgson, L. S. Hartley and O. S. Pratt, p. 212.
- Production of Oxide-coated Cathodes, p. 155.
- Les Cathodes à Oxydes: Propriétés, Préparation (Oxide-coated Cathodes: Properties and Preparation).—Boussard, p. 392.
- Shot Effect in Thermionic Emission from Oxide-coated Electrodes.—N. H. Williams and W. S. Huxford, p. 392.
- Oxide-Coated Filaments and Some of Their Properties.—A. M. Schemaw, p. 273.
- The Development of the Oxide-coated Filament.—B. Hodgson, L. S. Harley and O. S. Pratt, p. 453.
- The Production of Emission from Oxide Coated Filaments: a Process Phenomenon.—V. C. Macnabb, p. 577.
- The Pentode as an Anode Rectifier.—A. L. M. Sowerby, p. 635.
- Pentone Valves, p. 577.
- Die neue Philips-Hochfrequenzröhre. A-442 mit Schirmgitter (The new Philips H.F. Valve A.442 with Screen Grid).—A. van Stuiters and C. J. van Loon, p. 155.
- Une nouvelle Lampe de Puissance: la Lampe "Philips" Miniwatt B.443 (A New Power Amplifier Valve: the Philips Miniwatt B.443).—A. van Stuiters, p. 512.
- Electron Emission at the Surface of Platinum through which Hydrogen is passing.—L. T. Jones and V. Duran, p. 213.
- Motion of Positive Ions in a Plasma.—L. Tonks and I. Langmuir, p. 512.
- The Emission of Positive Ions from Tungsten at High Temperatures.—L. P. Smith, p. 576.
- The Effect of Hydrogen on the Thermionic Emission from Potassium.—H. R. Laird, p. 575.
- Grid Losses in Power Amplifiers.—E. S. Spitzer, p. 512.
- Power Valve Output.—F. E. Henderson, p. 635.
- Berechnung des günstigsten Durchgriffes der Röhren im Widerstandverstärker (Calculation of the Optimum "Durchgriff"— $1/\mu$ —for the Valves in a Resistance Amplifier).—H. G. Möller, p. 635.
- Phasen of the Thermionic Saturation Current: Thermionic Valve Circuit with Condenser in a Derived Circuit.—C. Dei, p. 331.
- A Screen Grid Transmitting Valve, p. 212.

- The Screen-grid Vacuum Tube.—J. E. Smith, p. 393.
Measurements of the Grid-Anode Capacity of Screen-Grid Valves.—N. R. Bligh, p. 451.
- The Modern H.F. Valve: Single Stage Amplification of Two or Three Hundred with the New Screen-Grid Valve.—W. I. G. Page, p. 512.
- New Screen-Grid Valve: The Mazda 215 S.G. Battery-heated Valve, p. 635.
- Shot Effect of Secondary Electrons.—L. J. Hayner and A. W. Hull, p. 576.
- Determination of the Charge of Positive Thermions from Measurements of Shot Effect.—N. H. Williams and W. S. Husford, p. 452.
- Zur Theorie der Raumladegitterröhren (The Theory of the Space-charge-Grid Valve).—F. Below, p. 44.
- Einfluss positiver Ionen auf die Elektronen-Raumladung innerhalb eines Zweiplatten Systems (Influence of Positive Ions on the Electron Space-Charge in a Two-plate System).—H. Cohn, p. 44.
- Einfluss positiver Ionen auf die Elektronen-Raumladung innerhalb eines Zweiplatten-Systems (The Influence of Positive Ions on the electronic Space charge in a Two-plate System).—H. Cohn, p. 153.
- Interaction of Electron and Ion Space Charges in Cathode Sheaths.—I. Langmuir, p. 153.
- The Interaction of Electron and Positive Ion Space Charges in Cathode Sheaths.—I. Langmuir, p. 511.
- Die Telefunken-Rundfunk-Röhren 1928 (Telefunken Broadcast Receiver Valves, 1928).—G. Jobst, p. 155.
- Die Telefunken-Rundfunk-Röhren 1928 (Telefunken Broadcast Valves, 1928).—G. Jobst, p. 393.
- Production Testing of Vacuum Tubes.—A. B. Du Mont, p. 577.
- Vacuum-Tube Production Tests.—A. F. Van Dyck and F. H. Engel, p. 106.
- Mathematical Theory of the Four-Electrode Tube.—J. C. Brainard, p. 512.
- The E.M.F. of Thermal Agitation.—E. K. Sandeman and L. H. Bedford, p. 392.
- Further Remarks concerning Thermionic "A" and "b"; a Revision and Extension.—E. W. Hall, p. 511.
- Photo-electric Emission and Thermionic Emission Once More.—E. H. Hall, p. 274.
- Thermionic Current in Dense Gases with Cylindrical Electrodes.—H. König, p. 392.
- Elektronen-Röhren: 3 Band.—Empfänger (Thermionic Valves; Vol. 3.—Receivers).—H. Barkhausen, p. 635.
- Hot-cathode Thyatrons.—A. W. Hull, p. 330.
- Hot Cathode Thyatrons; Part II: Operation.—A. W. Hull, p. 512.
- Metingen over de Soortelijke Warmte van Wolfran tusschen 90 en 2,600°. Absolut (Measurement of Specific Heat of Tungsten between 90 deg. and 2,600 deg. K.).—C. Zwicker and G. Schmidt, p. 213.
- Über die Schwankungen der Temperatur längs einem gegliederten dünnen Wolframdraht (The Temperature Fluctuations along a Thin Annealed Tungsten Wire).—A. Denisonoff, p. 392.
- The UV-861.—H. P. Westman, p. 331.
- A Special Connection for Joining Bulbs to Vacuum Pumps, p. 635.
- Un Abaque de Classification pour les Triodes de Réception (An Abac of Receiving Valve Classification).—B. Decaux, p. 331.
- Valve Selecting Charts: A New Classification of Receiving Valves.—R. T. Beatty, p. 513.
- Choosing the Right Valve; the Importance of Selecting the Valve with Reference to the Component in its Anode Circuit.—A. L. M. Sowerby, p. 213.
- Eine neue Lautsprecherrohre (A New Loud-Speaker Valve).—Telefunken Company, p. 452.
- L'Etat actuel de la technique des Lampes à plusieurs Électrodes (The Present Position in the Technique of Multi-Electrode Valves).—R. Jouau, p. 574.
- Simplified Construction of Multi-grid Valves, p. 577.
- Les Caractéristiques des Lampes de Réception Modernes et leur Choix rationnel (The Characteristics of Modern Receiving Valves, and their Selection for Various Purposes).—B. Decaux, p. 575.
- Technische Elektronenröhren und ihre Verwendung (Commercial Electronic Valves and their Application).—H. Rothe, p. 106.
- Valves We Have Tested, p. 212.
- Recherches et Essais sur les Lampes de T.S.F. (Experiments and Tests on Wireless Valves).—A. Kirilloff, pp. 398, 452 and 635.
- Une Explication possible de quelques Phénomènes dans le Tube à Rayons X (A Possible Explanation of Certain Phenomena in X-Ray Tubes).—A. Janitzky, p. 577.
- ### DIRECTIONAL WIRELESS.
- Les Applications de la Radio-Électricité dans la Navigation aérienne (The Applications of Radio-electricity in Aerial Navigation).—J. Marique, p. 572.
- Der Bordpeilempfänger im Flugzeug (The Direction-finding Receiver for Use on Board Aircraft).—M. H. Gloczner, pp. 332 and 393.
- Flugzeugsteuerung bei Unsichtbarem Wetter (The Piloting of Aircraft in Fog, etc.).—O. Scheller, p. 274.
- Determination of the Inclination of Aircraft, p. 214.
- Radio Developments Applied to Aircraft.—J. H. Delinger and H. Diamond, p. 513.
- Unidirectional Radiobeacon for Aircraft.—E. Z. Stowell, p. 213.
- Design of Tuned Reed Course Indicators for Aircraft Radiobeacon.—F. W. Dunmore, p. 214.
- Études des Radiophares pour Aéronefs par le "Bureau des Standards" (The Bureau of Standards Development of Radio Beacons for Aircraft), p. 453.
- Wireless Beacon at Start Point, p. 106.
- Rotating Beacon compared with Ship D.F. from Navigational and Economic Viewpoints.—G. R. Putnam, p. 637.
- Nouvelles Cartes Aériennes pour l'emploi de la T.S.F. en Navigation (New Aerial Charts for the Use of Wireless in Navigation).—L. Kahn, p. 453.
- Repérage des Directions fixes au moyen d'Ondes Hertziennes—Radio-Alignements (Course-Setting by Hertz Waves—Radio Alignments).—A. Arcardi, p. 332.
- Radio Direction-Finding by Transmission and Reception (With Particular Reference to its Application to Marine Navigation).—R. L. Smith-Rose, p. 332.
- Radio Direction-Finding by Transmission and Reception (Discussion).—R. L. Smith-Rose, p. 638.
- Direktzeigendes funktelegraphisches Peilenfahren (Direct-reading Wireless Direction-finding Method).—R. Hell, p. 393.
- Direct-reading Direction Finder, p. 454.
- Die unmittelbare Messung von Entfernung durch elektrische Wellen (Direct Measurement of Distances by Electric Waves).—W. Burstyñ, p. 453.
- Error-correction in Direction Finders (French Patent 635,849, S.F.R.), p. 45.
- Über Fehlweisen bei der Funkpeilung (On Errors in Direction-Finding by Wireless).—P. Duckert, p. 636.
- Abhängigkeit der Funkbeschickung von Meteorologischen Einflüssen (The Dependence of Wireless Transmission on Meteorological Influences).—P. Duckert, p. 214.
- Wireless as an Aid to Navigation.—Chetwode Crawley, p. 45.
- Le Chemin du Rayon Électromagnétique (The Path of the Electromagnetic Ray).—de la Forge, p. 331.
- Portable Direction Finder: Wide Range combined with Sensitivity and Accuracy.—R. L. Smith-Rose and E. L. Fletcher, p. 454.
- Prevention of Locating by Direction-finding, p. 331.
- Field Intensity Characteristics of Double Modulation Type of Directive Radio Beacon.—H. Pratt, p. 453.
- A Course-Shift Indicator for the Double-Modulation Type Radio-beacon.—H. Diamond and F. W. Dunmore, p. 578.
- Reciprocity Theorem, the Earth's Magnetic Field, and "Night Effect" D.F. Errors.—J. C. Schelleng, p. 637.
- The Reversibility of Radio Direction-finding and Local Error at Rotating-loop Beacons.—R. L. Smith-Rose, p. 155.
- Compulsory D.F. on Ships, p. 454.
- Water Ripples and Wireless Waves.—A. H. Davis, p. 155.
- Über Fehlweisen der Funkpeilung in Abhängigkeit von der Wetterlage (Direction-finding Errors and their Dependence on Weather Conditions).—P. Duckert, p. 106.

ACOUSTICS AND AUDIO FREQUENCIES.

- The Absolute Measurement of Sound Intensity.—F. D. Smith, p. 637.
- The Measurement of Sound Absorption Coefficients.—P. E. Sabine, p. 276.
- Acoustic Photographs by the Shock Test and Tone Test.—J. Zenneck, p. 214.
- Über Neuere Akustik... (New Work on Acoustics and in particular Electro-acoustics).—F. Trendelenburg, pp. 45, 107 and 156.
- Conditions of Securing Ideal Acoustics in Auditoriums.—H. R. Watson, p. 578.
- On the Acoustics of Large Rooms.—M. J. O. Strutt, p. 578.
- Beiträge zur Raumakustik (Contributions to our Knowledge of the Acoustics of Rooms).—W. Schindelin: E. Scharstein: F. Scharstein and W. Schindelin, p. 578.
- Application of Microphotometers for the Analysis of Photographic Sound Records.—J. T. Tykociner, p. 579.
- Über eine einfache Methode der automatischen Klanganalyse und der Messung der Nichtlinearität von Kohlemikrofonen (A Simple Method of Automatic Sound Analysis, and the Measurement of the Non-linearity of Carbon Microphones).—E. Meyer, p. 46.
- Experimental Analysis of the Force exerted by Sound Waves on an Air Resonator.—F. Waetzmann and K. Schuster, p. 580.
- The Analysis of Irregular Motions, with Applications to the Energy-frequency Spectrum of Static and of Telegraph Signals.—G. W. Kenrick, p. 277.
- Zur Theorie der Frequenzanalyse mittels Suchtonen (On the Theory of Frequency Analysis by means of an Exploring Note).—H. Salinger, p. 637.
- An Electro-mechanical Frequency Analyzer.—L. P. Delsasso, p. 637.

- A New Transformation in A.C. Theory, with an Application to the Theory of Audition.—B. van der Pol, p. 268.
- The Effect of a Finite Baffle on the Emission of Sound by a Double Source.—M. J. O. Strutt, p. 274.
- Die Wirkung einer endlichen Schirmplatte auf die Schallstrahlung eines Dipoles (The Effect of a Finite Baffle, etc.).—M. J. O. Strutt, p. 394.
- Über die experimentelle Bestimmung des Wirkungsgrades eines Bandlautsprechers (The Experimental Determination of the Efficiency of a Band Loud-speaker).—H. Graf, p. 579.
- Fixed Grain Carbon Microphone, p. 395.
- An Apparatus for the Projection of Frequency-Output Characteristics.—C. G. Carton and G. S. Lucas, p. 215.
- A Direct Method for the Study of the Characteristics of an Acoustic Transmitting System.—K. Kobayashi, p. 395.
- Study on the Characteristics of Acoustic Tubes.—K. Kobayashi, p. 579.
- Sound Measurements and Loud Speaker Characteristics.—I. Wolff, p. 215.
- Coefficients of Transmission, Reflection and Absorption of Sound.—K. Satō, p. 394.
- The Kyle Condenser Loud Speaker.—V. F. Greaves, F. W. Kranz, and W. D. Crozier, p. 579.
- The Condenser Microphone developed by the Radio Laboratory, Nizhny Novgorod.—S. I. Shaposhnikov, p. 276.
- The Kyle Condenser Reproducer.—C. Kyle, p. 514.
- On the Condenser Telephone.—G. Green, p. 275.
- Der selbsttönende Kristall und das Membraneless (Kristall-) Telefon (The Singing Crystal and the Membraneless Crystal Telephone).—A. Enzbrunner, p. 276.
- Broadcast Receiver for the Deaf; a Description of a Special Loud Speaker Unit with Sound Conduit.—C. M. R. Balbi, p. 395.
- Does a Vibrating Diaphragm carry a Mass of Air with it?—G.W.O.H., p. 395.
- Effect of Diffraction around the Microphone in Sound Measurements.—S. Ballantine, p. 155.
- Über Strahlungseigenschaften von Schallstrahlern (Radiating and Directional Properties of Sound Emitters).—H. Backhaus, p. 275.
- On the Variation of Sound with Distance.—L. A. Sokolov, p. 155.
- A Little-suspected Source of Distortion.—W. F. Sutherland, p. 395.
- Pressure Distribution in a Fluid due to the Axial Vibration of a Rigid Disc.—N. W. McLachlan, p. 214.
- Du Choix d'un Cornet Acoustique (The Choice of an Ear Trumpet).—Marage, p. 276.
- Über den Nachhall in geschlossenen Räumen (Echoes in Closed Spaces).—K. Schuster and E. Waetzmann; und Berechnung der Schalldichte in einem kugelförmigen Raume (Calculation of Sound Density in a Spherical Space).—K. Schuster, p. 395.
- Electrostatic Microphone-Telephone.—L. Lévy, p. 107.
- The Vogt Electrostatic Loud Speaker, p. 455.
- The Use of the Electret in a Condenser Transmitter.—S. Nishikawa and D. Nukiyama, p. 217.
- Energy in Broadcasting, p. 46.
- Energiebilanz im Rundfunk (The Balance of Energy in Broadcasting).—E. Wolf, p. 334.
- Messung der Gesamtpotenzie von Schallquellen (Measurement of the Total Energy of Sound Producers).—E. Meyer and P. Just, p. 578.
- Experimental and Theoretical Mid-Series Characteristic Impedance of Acoustic Wave Filters.—G. W. Stewart and C. W. Sharp, p. 580.
- Frequenzkurven von elektrischen Tonabnehmern und mechanischen Grammophonen (Frequency Curves of Electric Pick-Ups and Mechanical Gramophones).—E. Meyer and P. Just, p. 579.
- Apparatus for Generating and Measuring Sound, for the Study of Architectural Acoustics.—D. M. Crawford, p. 275.
- Progress in Technical Acoustics in Germany in 1928.—W. Wagner, p. 334.
- A New Loud Speaker: the Use of Glow-Discharges to Create Sound-waves from Voltage Changes, p. 156.
- A.C. Gramophone Amplifier.—N. P. Vincer-Minter, p. 156.
- Frequency Gramophone records, p. 334.
- An All-Electric Amplifier: High Quality Reproduction of Gramophone Records. Part I.—A. P. Castellain, p. 455.
- Mounting the Gramophone Pick-Up, p. 579.
- Die Selbstaufnahme von Schallplatten mit Hilfe des Rundfunkempfängers (Making Gramophone Records from Broadcast Reception).—O. Zache, p. 638.
- Radio-Gramophones (Commercial Equipment reviewed): Gramophone Pick-ups (19 Commercial Types discussed, with Table of Relative Outputs at different frequencies): Fitting a Pick-up, p. 276.
- Minimum Value of Amplitude of Second Harmonic which must be superposed on First Harmonic so that it becomes noticeable in an "Ordinary" Loud Speaker, p. 333.
- Dispersion and Absorption of High Frequency Sound Waves.—K. F. Herzfeld and F. O. Rice, p. 156.
- Experiments with High Frequency Sound Waves.—F. L. Hopwood, p. 276.
- High-Quality Reproduction of Music.—H. Backhaus, p. 107.
- Messung der Schalldurchlässigkeit mit Hilfe des Hitzdrahtmikrophones (Measurement of Transparency to Sound by the Hot Wire Microphone).—H. Kietz, p. 395.
- Dynamic Speaker Hum Elimination.—P. G. Andres, p. 276.
- Der Heulsummer und seine Verwendung bei raumakustischen Messungen (The "Howling" Hummer and its Use in the Measurement of Room-Acoustics).—P. Just, p. 513.
- Verstaanbaarheid van Luidsprekerinstallaties (The Intelligibility of a Loud Speaker).—C. Zwicker, p. 579.
- Über die Wirkungsweise des Kathodophons (The Method of Action of the Kathodophone).—E. Meyer, p. 216.
- Richtungsbohrung bei Sinusvormige Gehördrillingen (Location by Ear of the Direction of a Pure Note).—J. L. Van Soest, p. 638.
- Search for Quality: the Construction and Performance of a 25 ft. Logarithmic Horn.—R. P. G. Denman, p. 578.
- The "Breaking-Up" of Loud Speaker Diaphragms.—N. W. McLachlan, p. 514.
- The Inductor Dynamic (Farrand Loud-speaker Movement).—H. P. Westman, p. 579.
- Die Bisher Üblichen Elektromagnetischen Lautsprecher-Systeme und das Neue Spannungsfreie Systeme (The Ordinary Electromagnetic Loud-speaker Systems, and the New Tension-free System).—F. Gabriel, p. 275.
- Apparent Equality of Loud-speaker Output at Various Frequencies.—L. G. Hector and H. N. Kozanowski, p. 333.
- Insensitive Loud Speakers and False Economy.—A.L.M.S., p. 333.
- Acoustic Considerations Involved in Steady State Loud Speaker Measurements.—L. G. Bostwick, p. 275.
- Die Tonerzeugung durch Spitzen an einem Wechselpotential und ihre Verwendung als membranloser Lautsprecher (Sound Production by Points at High A.C. Potential, and their Use as Membraneless Loud Speakers).—L. Fleischmann, p. 276.
- Neue Hilfsmittel für akustische Messungen (New Aids to Acoustic Measurement), p. 334.
- Measurements on Sound Damping Materials.—E. Meyer and P. Just, p. 513.
- The Acoustimeter.—R. F. Norris, p. 276.
- A Solution of the Problem of the Broadcasting Microphone.—A. H. Reeves, p. 454.
- A Diaphragm-less Microphone.—A. L. Foley, p. 395.
- A Microphone with Uniform Response (Iganic), p. 275.
- An Electromagnetic Monochord for the Measurement of Audio Frequencies.—J. H. O. Harries, p. 638.
- Design Data for the Moving Coil; Some Notes on the Most Efficient Coil and its Correct Design.—L. E. T. Branch, p. 455.
- The Acoustic Performance of a Vibrating Rigid Disk driven by a (Moving) Coil situated in a Radial Magnetic Field.—N. W. McLachlan, p. 513.
- The Impedance of a Moving-coil Loud Speaker.—N. W. McLachlan, p. 155.
- A New Moving Coil Loud Speaker, p. 455.
- The Moving Coil Loud Speaker.—H. M. Clarke, p. 513.
- Moving Coil Loud Speakers, with Particular Reference to the Free-Edge Cone Type.—C. R. Cossens, p. 513.
- Utilisation des Lampes de T.S.F. pour la Production de Musique Électrique (The Use of Valves for the Production of Electrical Music).—E. Aisberg, p. 46.
- Les Instruments de Musique à Oscillations Électriques: Le Clavier à Lampes (Electrically oscillating Musical Instruments; the valve keyboard).—A. Givellet, p. 107.
- Study of Noises in Electrical Apparatus.—T. Spooner and J. P. Foltz, p. 638.
- Verification of Ohm's Acoustic Law regarding Non-perception of Phase Changes, p. 277.
- A Photographic Method of Measuring Pitch.—M. Metfessel, p. 155.
- A Measurement of the Sound Pressures on an Obstacle.—W. West, p. 637.
- Sound Radiation from a System of Vibrating Circular Diaphragms.—I. Wolff and L. Malter, p. 514.
- Das "Radiophon" (The Radiophon).—G. Eichhorn, p. 217.
- Improved Reproduction by the Reduction of Distortion due to Anode Rectification.—A. G. Warren, p. 580.
- Ein neuer Einröhre-Zwischenverstärker (A New One-valve Intermediate Repeater).—L. Müller, p. 46.
- "Akustik": "Speech and Hearing".—F. Trendelenburg (edited by): Harvey Fletcher, (Reviews in "Nature,") p. 638.
- A.E.G. Coil-driven Loud Speaker (Rice-Kellogg).—F. A. Fischer and H. Lichte, p. 578.
- Silver Solders in Radio Loud-Speakers.—R. R. Shuman, p. 514.
- Sound Propagation in Gas Mixtures.—D. C. Bourgin, p. 638.
- Speech-power of Speakers in Auditoriums.—V. O. Knudsen, p. 578.
- Voltage Surges in Audio-frequency Apparatus.—E. M. Fisher, p. 454.
- A Theoretical Study of the Articulation and Intelligibility of a Telephone Circuit.—J. Collard, p. 155.
- Improvements in Telephone Receivers.—R. G. E. Bury, p. 107.
- A Testing Method for Microphones.—K. Kobayashi, p. 46.
- Zur Theorie des Hörens: die Schwingungsform der Basilarmembran (On the Theory of Hearing: The Nature of the Vibrations of the Basilar Membrane).—G. v. Békésy, p. 155.

- Zur Theorie des Hörens (On the Theory of Hearing).—G. v. Békésy, p. 638.
- Theory of Vibrating Systems and Sound.**—I. B. Crandall, p. 156.
- Vorübertrager verzerrungsfreier Verstärker (Input Transformers of Distortionless Amplifiers).—R. Feldtkeller und H. Bartels, p. 334.
- The Design of **Transformers** for Audio-frequency Amplifiers with Pre-assigned Characteristics.—G. Koehler, p. 216.
- Über die Frequenzabhängigkeit von Verstärkertransformatoren (The Frequency Dependence of Amplifier **Transformers**).—K. Matthies und G. Ganswindt, p. 276.
- Transients** alias "Attack": Natural Oscillations of Loud-speaker Diaphragms.—N. W. McLachlan, p. 333.
- Transients** in Loud Speakers and Amplifiers: How Sudden Changes in Sound Intensity Affect the Amplifier: the Important Effect of a Choke-filter Output.—N. W. McLachlan, p. 579.
- Transmission** of Sonic and Ultrasonic Waves through Partitions.—R. W. Boyle, and Passage of Acoustic Waves through Materials.—R. W. Boyle and J. F. Lehmann, p. 275.
- The **Transmission** of Sound through Partitions. II.—Vibrating Partitions.—A. H. Davis and T. S. Littler, p. 455.
- Transmission** of Sound through Wall and Floor Structures.—V. L. Christer and W. F. Snyder, p. 579.
- Numerical Values concerned in Telephony.—T. J. Monaghan, p. 45.
- Choosing a Power Valve for the Reed-driven Loud Speaker: An Analysis of Impedance Relationship.—N. W. McLachlan, p. 334.
- Geschwindigkeitsmessungen mit erhitzen Drähten in stehenden Luftwellen (Velocity Measurements with Heated Wires in Stationary Air Waves).—G. Goldbaum and E. Waetzmann, p. 455.
- Sur la Détermination de la Vitesse du Son, basée sur la Théorie cinétique des Gaz (The Determination of the Velocity of Sound, by a Method based on the Kinetic Theory of Gases).—S. Drzewiecki, p. 638.
- The Transmission of Sound through Sea Water.—J. H. Service, p. 107.
- PHOTOTELEGRAPHY AND TELEVISION.**
- Light-Sensitive Cells. I.—Construction of **Alkali Metal Cells**.—J. P. Arnold, p. 516.
- La Phototélégraphie d'Amateur (Amateur Phototelegraphy).—R. Mesny, p. 456.
- L'Amplification dans la Télévision (Amplification in Television).—G. H. D'Ailly, p. 395.
- Atomic Layers** of Rubidium.—Bell Telephone Laboratories, p. 159.
- Further Consideration of the Photo-electric Phenomenon of the Audion.—Q. Majorana, p. 47.
- Television from 2LO. Baird Synchronising System Described, p. 638.
- Becquerel Effect in Cells containing Grignard Compounds.—R. T. Dufford, p. 396.
- Der gegenwärtige Stand der Bildtelegraphie. V.—Das hochwertige Belin-Verfahren (The Present State of Picture Telegraphy).—V.—The Improved Belin System).—F. Noack, p. 456.
- Derniers Progrès de la Transmission Belinographique en France (Latest Progress in Belinograph Transmission in France).—G. Oglodlinski, p. 46.
- Zur Frage des Bildrundfunks (The Question of Picture Broadcasting).—A. Korn, p. 108.
- Beginn der versuchswiseen Bildrundfunkversuche in Deutschland (Preliminary Trials of Picture Broadcasting begin in Germany), p. 108.
- Rundfunk und Bild (Broadcasting and Pictures).—F. Schröter, p. 156.
- Building a Picture Receiver.—F. H. Haynes, p. 157.
- Thermonic and Photoelectric Emission from **Cæsium** at Low Temperatures.—L. R. Koller, p. 581.
- Cæsium-Magnesium** Photoelectric Cell.—V. Zworykin and E. D. Wilson, p. 335.
- Layers of **Cæsium** and Nitrogen on Tungsten.—de Bruyne, p. 575.
- Researches in Cathode Ray Tube Television.—L. B. Rosing, p. 580.
- Nouveau Dispositif pour l'Enregistrement Simultané de Trois Images Sélectionnées pour la Production d'Images en Couleurs (New Arrangement for the Simultaneous Blending of Three Selected Images for the Production of Images in Colour).—C. Nachet, p. 158.
- Colour Television, p. 580.
- The Covergraph; Technical Details of a New Picture Receiver.—F. H. Haynes, p. 335.
- Bildtelegraphenbetrieb über Leitungen (Picture Telegraphy Service over Conductors).—P. Arent, p. 514.
- Photoelectric Cells and Methods of Coupling to Vacuum Tubes.—T. P. Dewhurst, p. 456.
- Effects of a Crystallographic Transformation on the Photoelectric and Thermonic Emission from Cobalt.—A. B. Cardwell, p. 581.
- Über das Leitvermögen von starken Elektrolyten für Hochfrequenzströme (The Conductivity of Strong Electrolytes for H.F. Currents).—H. Zahn, p. 515.
- Über die elektrolytische Herstellung von Photozellen und deren Verwendung (The Electrolytic Manufacture of Photoelectric Cells, and its Application).—L. Márton and E. Rostás, p. 277.
- Über die Gesetzmäßigkeiten der lichtelektrischen Gesamtmission (The Conformity to Law of the Total Photoelectric Emission).—R. Suhrmann, p. 515.
- Facsimile Picture Transmission.—V. Zworykin, p. 334.
- Facsimile Picture Transmission: Discussion.—V. Zworykin and others, p. 455.
- Facsimile Telegraphy, p. 158.
- Photo-electric Thresholds and Fatigue.—G. B. Welch, p. 159.
- Studies in Fluorescence and Photo-sensitisation in Aqueous Solutions.—W. West, R. H. Müller and E. Jette, p. 109.
- Étude des Propriétés des Cellules Photoélectriques Fournier (The Properties of the **Fournier** Photoelectric Cells).—R. Dubois, p. 158.
- Fultograph Transmissions, p. 639.
- Fixing "Fultograph" Pictures.—A. J. H. Iles, p. 580.
- The Photoelectric Effect in **Glow-Discharge** Tubes.—H. J. Reich, p. 47.
- Über den Einfluss des Wasserstoffs auf die lichtelektrische Elektronenmission des Kaliums (The Influence of **Hydrogen** on the Photoelectric Electron Emission of Potassium) and Wasserstoffionen als Ursache für das Auftreten der lichtelektrischen spektralen Selektivität des Kaliums (**Hydrogen** Ions as the Cause of the Photoelectric Spectral Selectivity of Potassium).—R. Suhrmann and H. Theissing and R. Suhrmann, p. 396.
- C. F. Jenkins Television Broadcast Transmissions, p. 639.
- Control of a **Kerr Cell**, p. 158.
- High Frequency Supply for Kerr Cell, p. 515.
- Improvements in **Kerr Cells** (German Patent, 469,579, Karolus), p. 46.
- Relation between Blackening of Photofilm and Potential Difference on **Kerr Condenser** in Picture Transmission Systems using Photoelectric Cells.—P. V. Shmakov, p. 581.
- No Time-Lag in **Kerr Effect**.—E. Gaviola, p. 581.
- Der gegenwärtige Stand der Bildtelegraphie: die neueste Entwicklungsstufe des Kornischen Verfahrens (The Present Position of Picture Telegraphy: the latest Development of the **Korn** System).—F. Noack, p. 277.
- Light Control, p. 515.
- Light Control for Picture Telegraphy, etc., p. 456.
- Light-Sensitive Cells.—J. P. Arnold, p. 581.
- Light-Sensitive Electric Generator, p. 639.
- Liquid-Filled Photo Cell, p. 158.
- Microscopic Study of Electric Double Refraction in Liquids.—M. Iwatake, p. 580.
- The Magneto-Optical Dispersion of some Organic Liquids in the Ultra-Violet Region of the Spectrum.—C. C. Evans and E. J. Evans, p. 580.
- The Preparation of Photoelectric Cells with Thin Films of **Lithium** as the Photoactive Material.—H. E. Ives, p. 581.
- Neues Bildfunkgerät von Marconi (A New Marconi Picture Wireless Telegraph Apparatus).—F. Noack, p. 639.
- Marconi-Wright Facsimile System.—G. M. Wright, p. 395.
- Marking Device for Picture Telegraphy, p. 158.
- Das Lichtelektrische Verhalten des Quecksilbers beim Übergang von flüssigen in den festen Aggregatzustand (The Photoelectric Behaviour of Mercury on its Change from Fluid to Solid Aggregate State).—M. Grittmann, p. 277.
- Television by the **Mihály** System: First Description of a New Receiver Shortly to be Seen in this Country, p. 514.
- The Photoelectric and Thermionic Properties of **Molybdenum**.—M. J. Martin, p. 581.
- Bildfunk Moskau-Berlin (Moscow-Berlin Picture Telegraphy).—P. W. Schmakow, p. 514.
- Sur les Courbes caractéristiques des Cellules photoélectriques (Photoelectric Cell Characteristics).—L. Dumoyer, p. 515.
- The Use of Dielectrics to Sensitize Alkali Metal Photoelectric Cells to Red and Infra-Red Light.—A. R. Olpin, p. 581.
- Photoelectric Cells, p. 456.
- Photoelectric Cells. Amplification, Etc., p. 335.
- The Distribution in Direction of Photoelectrons from Alkali Metal Surfaces: The Voltage-Current Relation in Central Cathode Photo-electric Cells.—H. E. Ives, A. R. Olpin and A. L. Johnsrud; T. C. Fry, p. 109.
- Zur Theorie der lichtelektrischen Wirkung (On the Theory of the Photoelectric Effect).—H. Th. Wolf, p. 277.
- Sur la Théorie de l'effet photo-électrique (On the Theory of the Photoelectric Effect).—P. Auger, p. 515.
- Photoelektrischer Effekt von dielektrischen Oberflächen nach vorhergehender Aufladung durch langsame Elektronen (Photoelectric Effect of Dielectric Surfaces after a Preliminary Charging by Slow Electrons).—P. S. Tartakowsky, p. 581.
- Measurement of the Photoelectric Effect during Change of State of Kathode.—A. Goetz, p. 581.
- Sulla Dipendenza dalla Temperatura dell'Effetto Fotoelettrico di Condutibilità nel Joduro Mercurico (Rosso) (On the Dependence on Temperature of the Photoelectric Effect on Conductivity, in Red Iodide of Mercury).—L. Piatti, p. 395.
- Variation of the Photoelectric Effect with Temperature, and Determination of the Long Wave-Length Limit for Tungsten.—A. H. Warner, p. 515.

- Photoelectric Effect at Low Temperatures.**—J. C. McLennan, L. A. Matheson and C. D. Niven, p. 515.
Maximum Excursion of the Photoelectric Long Wave Limit of the Alkali Metals.—H. E. Ives and A. R. Olpin, p. 516.
Photoradio Developments.—R. H. Ranger, p. 514.
An Hour with a Picture Receiver.—“Empiricist,” p. 157.
Der Bildfunk nach dem System Lorenz-Korn (The L-K Picture Telegraph System).—W. Scheppmann and A. Eulenbörer, p. 46.
Picture Telegraphy.—Lorenz, p. 334.
Fortschrifte in der Bildtelegraphie (Advances in Picture Telegraphy).—F. Schröter, p. 108.
Receiving System for Picture Telegraphy.—p. 514.
Bildübertragung und Fernsehen (Picture Telegraphy and Television).—R. Hiecke, p. 157.
Piezoelectric Air Currents used for Relay Purposes.—p. 580.
The Photoelectric Long Wave Limit of Potassium Vapor: The Emergent Energy of Photoelectrons in Potassium Vapor.—R. C. Williamson, p. 47.
Untersuchungen über den selektiven Lichtelektrischen Effekt an dünnen, auf einem Platinspiegel adsorbierten Kaliumhüten (Investigations into the Selective Photoelectric Effect in Thin Potassium Films adsorbed on a Platinum Mirror).—R. Suhrmann and H. Theissing, p. 581.
Experiments on the Photoelectric Effect in Thin Films of Potassium and Sodium.—W. F. G. Swann: Nottingham, p. 581.
Radiovision.—p. 109.
Radiovision.—p. 156.
Radiovision.—T. P. Dewhurst, p. 157.
Das Bildfunksystem Ranger der Radio-Corporation of America (The Ranger Picture Wireless System of the Radio Corporation).—F. Noack, p. 638.
Photoelectric Relay.—p. 158.
Über das photoelektrische Verhalten von Salzen (The Photoelectric Behaviour of Salts).—J. Werner, p. 639.
Über die Sättigung des Lichtelektrischen Stromes (The Saturation of Photoelectric Current).—J. A. Becker, pp. 159 and 396.
Optical Conditions for Direct Scanning in Television.—F. Gray and H. E. Ives, p. 157.
Reflexionsabtastung bei Bildtelegraphen (Reflection Scanning for Picture Telegraphy).—F. Schröter, p. 580.
Controlling the Television Scanning Disk.—p. 108.
The Selenium Cell: its Properties and Applications.—G. P. Barnard, p. 108.
Selenium and Cathode Rays.—C. E. S. Phillips, p. 396.
The Photo-F.M.F. in Selenium.—R. L. Hanson, p. 515.
A New Stéraphotograph Transmitter.—L. Chauveau, p. 456.
Der Bildtelegraph System Siemens-Karolus-Telefunken (The S.K.T. Picture Telegraphy System).—P. Arendt, p. 456.
Standardisation of Television Apparatus.—p. 109.
Sensitivity and Spectrum-Range of Photoelectric Cells with Superposed Sulphur Layer.—p. 639.
Synchronisation.—p. 158.
Synchronisation.—p. 335.
Separation of Picture Signal from Synchronising Signal.—p. 580.
Synchronism.—C. F. Jenkins, p. 158.
Application of Talbot's Law to Photoelectric Cells with a Non-linear Illumination-current Characteristic.—G. H. Carruthers and T. H. Harrison and Talbot's Law, Fatigue, and Non-linearity in Photoelectric Cells.—W. S. Stiles, p. 395.
Talbot's Law in Photoclectric Cells.—N. Campbell, p. 515.
Talbot's Law in Connexion with Photo-electric Cells.—G. H. Carruthers, p. 581.
Un Nouveau Système de Télévision et de Télécinématographie (A New System of Television and Telecinematography).—L. Thurn, pp. 157 and 335.
Der gegenwärtige Stand der Bildtelegraphie: 3.—Der elektrolytische Querschreiber von Telefunken.—4.—Die Bildrundfunkempfänger (The Present Position of Picture Telegraphy: 3.—The Telefunken Electrolytic Transcriber, and 4.—The Picture Broadcast Receiver).—F. Noack, p. 335.
Der Fernseher Telefunken-Karolus (The Telefunken-Karolus Television Apparatus).—p. 455.
Television Abroad.—A. G. Ingalls, p. 156.
Television Apparatus.—G. Cristescu (Roumanian Patent), p. 46.
Television; Past and Future.—A. A. Campbell Swinton, p. 46.
Television.—A. Dinsdale, p. 108.
Television.—C. R. Cossens, p. 157.
Television.—p. 277.
Television and the Problems Involved.—T. Thorne Baker, p. 277.
Le Problème de la Télévision (The problem of Television).—B. Decaux, p. 580.
La Télévision ou Transmission à Distance des Images Animées (Television, or Transmission to a Distance of Animated Pictures).—Belus, p. 455.
Versuche zum Fernsehen. I.—Bau eines Experimentier-Geräts (Experiments in Television, I.—Construction of an Experimental Apparatus).—R. Mücke, p. 639.
Fernsehen in Aussicht! (Television in Sight!).—F. Noack: v. Mihály, p. 639.
Preparation of the Thallium Photoelectric Cell.—Q. Majorana and G. Todesco, p. 158.
Thallium Photoelectric Cells.—I. Rolla, p. 335.
Picture Transmission from Originals of Varying Thickness.—p. 515.
Kniffe beim Bildfunkempfang (“Tips” for Wireless Picture Reception).—p. 456.
A Phonic Motor and Slave Fork and an Electrically Maintained Tuning Fork with a Calibrated Speed Adjustment.—D. C. Gall, p. 217.
Über die Höchstgeschwindigkeit lichtelektrischer Elektronen im selektiven Empfindlichkeitsbereich des Kaliums (On the Maximum Velocity of Photoelectric Electrons in the Zone of Selective Sensitivity of Potassium).—H. Teichmann, p. 515.
Étude de la Préparation et des Propriétés Optiques et Magnéto-optiques des Couches très minces de Fer (Study of the Preparation and Optical and Magneto-optical Properties of Very Thin Films of Iron).—M. Cau, p. 395.
Wave Mechanics of an Alkaline Atom in the Electric Field.—F. Rasetti, p. 159.

MEASUREMENTS AND STANDARDS.

- The Application of Vacuum Tubes in Measuring Small Alternating Currents of any Frequency.**—R. E. Martin, p. 111.
An Ampere Meter for Measuring Alternating Currents of Very High Frequency.—E. B. Moullin, p. 49.
The Measurement of the Voltage Amplification Factor of Tetrodes.—W. Jackson, p. 396.
The Graphical Estimation of Low-frequency Choke Amplifier Performance.—W. A. Barclay, p. 110.
High Grid Resistor Amplifier.—P. J. Mulder and J. Razek, p. 516.
A Direct-current Amplifier for Measuring Small Currents.—J. M. Eglin, p. 517.
Der Gebrauch von Verstärkeröhren zur Messung kleiner Energiebeträge (The Use of Amplifier Valves for the Measurement of Small Amounts of Energy).—J. Brentano, p. 516.
Anordnung und Geräte zur Untersuchung von Hochfrequenzverstärkern (Arrangements and Apparatus for the Investigation of H.F. Amplifiers).—M. v. Ardenne, p. 47.
Messungen an Niederfrequenzverstärkern (Measurements on L.F. Amplifiers).—R. Wigand, p. 279.
Electrical Wave Analyzers for Power and Telephone Systems.—R. G. McCurdy and P. W. Blye, p. 583.
The Measurement of the Anode Circuit Impedances and Mutual Conductances of Thermionic Valves.—L. Hartshorn, p. 336.
An Area-Computing Scale.—p. 520.
Measurement of Atomic Distances by Piezo-electric Vibrations.—A. Meissner, p. 518.
Determination of the Axes of Piezo Crystals (German Patent 461,497, Giebel and Scheibe), p. 48.
A Ballistic Galvanometer Method of Potentiometric Measurement for High Resistance Cells.—H. T. Beavis and G. H. Walden, p. 640.
A Bridge for Measuring Audio-frequency Transformers, Etc.—G. Koehler, p. 221.
Use of the modified Belfis Bridge for the Measurement of the Irregularity of a Voltage not strictly Continuous.—C. Chiodi, p. 338.
Alternating Current Bridge Methods: Their Application to Electrical Engineering Problems, with Special Reference to the Testing of Synchronous Condensers. Part I.—R. G. Churcher, p. 220.
Quantitative Methods used in Tests of Broadcast Receiving Sets.—A. F. Van Dyck and E. T. Dickey, p. 110.
Measurement of Wavelengths of Broadcasting Stations.—R. Braillard and E. Divoire, p. 582.
The Routine Measurement of the Operating Frequencies of Broadcast Stations.—H. L. Bogardus and C. T. Manning, p. 582.
Standard Frequency Transmissions by the Bureau of Standards, p. 47.
The Measurement of Direct Interelectrode Capacitance of Vacuum Tubes.—A. V. Loughren and H. W. Parker, p. 516.
Studio del Triodo come Amplificatore Balistico per la Misura di Piccole Capacità (Study of the Three-Electrode Valve as a Ballistic Amplifier for the Measurement of Small Capacities).—E. Cristofaro and G. Sacerdote, p. 583.
Die Messung von Kapazitäten mit dem Überlagerungsverfahren (Capacity Measurement by the Heterodyne Method).—W. Weihe, p. 161.
Über Kapazitätsmessungen mittels piezoelektrischer Oszillatoren und Resonatoren (The Measurement of Capacity by the Use of Piezoelectric Oscillators and Resonators).—G. A. Kjandsky, p. 278.
The Variation of Effective Capacity of an Air Condenser due to Humidity and Pressure Changes.—G. D. Rock, p. 111.
A Capacity Measurement Method.—W. van B. Roberts, p. 641.
The Recording of Capacity-changes.—p. 641.
Receiver Characteristics and their Measurements.—V. D. Landon, p. 162.

- Deux Exemples de Montages qui font intervenir la Variation des Caractéristiques d'un Appareil récepteur ou de Mesure (Two Examples of Methods of Connection which introduce Variation of the Characteristics of a Receiving or Measuring Instrument).—L. Cagniard, p. 337.
- Zur Berechnung von eisenlosen Drosselpulpen und der zwischen koaxialen Spulen wirkenden Kräfte (The Calculation of Air Core Chokes and the Forces between Co-axial Coils).—J. Hak, p. 280.
- Sur un Chronographe enregistrant le Dixmillième de Seconde (A Recording Chronograph registering the Ten-thousandth of a Second).—P. Lejay, p. 398.
- Neue Verfahren zur Koinzidenzvergleichung von Pendeluhrn (New Methods of Coincidence-comparison for Pendulum Clocks).—J. Baltzer, p. 518.
- Spulenberechnung (Coil Calculation).—O. Drovsen, p. 111.
- Compensating Zero Shunt Circuit.—J. Razek and P. J. Mulder, p. 520.
- Ermittlung der Entladekurve von Kondensatoren (Plotting the Discharge Curves of Condensers).—H. Rühlemann, p. 278.
- Kapazitätsvariometrische Präzisionsmessungen (Variable Capacitors for Precision Measurements), p. 278.
- Further Notes on the Calibration Permanence and Overall Accuracy of the Series-gap Precision Variable Air Condenser.—W. H. F. Griffiths, p. 111.
- A Loss-free Air Condenser for A.C. Bridge Work.—K. Ogawa, p. 337.
- A Quick and Sensitive Method of Measuring Condenser Losses at Radio Frequencies.—R. W. Wilmotte, p. 162.
- A Method for the Determination of the Equivalent Resistance of Air-Condensers at High Frequencies.—G. W. Sutton, p. 337.
- Resistance of Air Condensers.—R. R. Ramsey and B. D. Morris, p. 583.
- Eine einfache Kompensationsschaltung zur Messung der Kapazität und des dielektrischen Verlustwinkels von Kondensatoren und Kabeln (A Simple Compensation Circuit for the Measurement of Capacity and Dielectric Loss Angle of Condensers and Cables).—W. Geyger, p. 338.
- The Measurement of Conductivities by Means of Oscillating Circuits.—S. D. Gehman and B. B. Weatherby, p. 278.
- On the Measurement at Radio Frequency of the Conductivity of Liquids without Immersed Electrodes.—W. F. Powers and M. F. Dull, p. 278.
- Measurement of Earth Conductivity for [Very] Short Electric Waves.—M. J. O. Strutt, p. 639.
- Über die Konstanz elektrisch erregter mechanischer Schwingungen und ihre Anwendung (On the Constancy of Electrically Excited Mechanical Oscillations, and Their Application).—W. Hensel, p. 517.
- Contacts in Apparatus for Measuring Electrical Resistivity.—J. L. Haughton, p. 338.
- Experiments on the Corona Voltmeter.—H. B. Brooks and F. M. Defandorff, p. 397.
- An Absolute Current-Balance having a Simple Approximate Theory.—L. F. Richardson and V. Stanyon, p. 221.
- Eine Kompensationsmethode zur Messung schwacher Ströme (A Compensation Method for the Measurement of Small Currents).—R. Jaeger, p. 278.
- A Vacuum-Tube Circuit for Measuring Small Alternating Currents.—R. E. Martin, p. 277.
- Sur une Méthode de Mesure de très faibles Courants électriques, méthode dite d'Electrométrie tachymétrique (The "Tachometric" Method of Measuring Very Small Electric Currents).—C. Guillet, p. 337.
- Useful Data Charts (No. 15). Efficiency of Coupling by Grid Leak and Condenser.—R. T. Beatty, p. 49.
- Useful Data Charts (No. 21). Ratio of H.F. Resistance to D.C. Resistance of a Coil, p. 220.
- Decibel—the Name for the Transmission-Unit.—W. H. Martin, p. 339.
- Piezoelectric Effect of Diamond.—W. A. Wooster, p. 582.
- Messung der Dielektrizitätskonstanten und der scheinbaren Leitfähigkeit von Isolierstoffen bei Hochfrequenz (The Measurement of the Dielectric Constant and Apparent Conductivity of Dielectrics for High Frequencies).—H. Kuhlewein, p. 519.
- The Heterodyne Null Method of Measuring Dielectric Constant.—P.N. Ghosh and P. C. Mahanti, p. 519.
- Über die Verwendbarkeit der Resonanzmethode zur Messung von Dielektrizitätskonstanten leitender Flüssigkeiten (The Applicability of the Resonance Method to the Measurement of the Dielectric Constants of Conducting Fluids).—H. Kniepkamp, p. 278.
- On the Measurement of the Dielectric Constants of Liquids, with a Determination of the Dielectric Constant of Benzene.—L. Hartshorn and D. A. Oliver, p. 338.
- Die Bestimmung der Durchschlagfestigkeit von festen Stoffen in homogenen Felde (Determination of Dielectric Strength of Solid Materials in Homogeneous Fields).—E. Marx, p. 221.
- A Direct Reading Radio-frequency Meter.—R. C. Hitchcock, p. 218.
- Neue Ausführungen von Fernumessanlagen (New Developments in the Distant Reading of Meters, etc.).—W. Stern, p. 339.
- Capacity in the Drysdale's Bridge.—S. S. H. Nagir and P. N. Sharma, p. 162.
- Ein Bellati-Dynamometer sehr hoher Empfindlichkeit (A Bellati Dynamometer of Very Great Sensitivity).—A. Pfeiffer, p. 278.
- A Simple Earthing Switch for Small Electrometers.—G. B. Moss, p. 338.
- A New Method for Determining the Efficiency of Vacuum-tube Circuits.—A. Crossley and R. M. Page, p. 48.
- Current Measurement with a Compton Quadrant Electrometer.—E. E. Watson, p. 517.
- "Mekapion" Valve Electrometer for Measurements and Automatic Recording.—S. Strauss, p. 397.
- A Precise Electrometer Method for Voltage-Transformer Testing.—R. S. J. Silsbury, p. 640.
- Elektronenzählrohr zur Messung schwächster Aktivitäten (Electron Counter for the Measurement of Very Small Energies).—H. Geiger and W. Müller, p. 220.
- A New Electroscope.—B. F. J. Schonland, p. 640.
- Experimental Methods for Determining the Distribution of Electric and Magnetic Fields.—B. Hague, p. 220.
- Determining the Distribution of Electric and Magnetic Fields.—B. Hague, p. 280.
- Measurement of the Intensity of High Frequency Magnetic Fields.—R. H. Mortimore, p. 397.
- Ein Kurzwellenempfangsgerät zur Messung der Feldstärke (A Short-wave Receiving Apparatus for the Measurement of Field Strengths).—G. Leithäuser, p. 161.
- Field Strength Measurements.—See also under Propagation of Waves.
- Mesure des Fréquences (The Measurement of Frequencies).—F. Bedreau and J. de Mare, p. 160.
- La Mesure des très hautes Fréquences radiotélégraphiques au moyen des Oscillateurs à Quartz piézo-électrique (The Measurement of Very High Frequencies by Means of Piezoelectric Quartz Oscillators).—B. Decaux, p. 279.
- Measurement of Ultra-Radio Frequencies by Standing Waves on Wires and its Comparison with that by Multivibrator System.—S. Ishikawa, p. 337.
- Measurement of the Frequencies of Distant Radio Transmitting Stations.—G. Pession and T. Gorio, p. 457.
- A System for Frequency Measurement Based on a Single Frequency.—Bureau of Standards Note, p. 110.
- An Auxiliary Frequency Control for R.F. Oscillators.—G. F. Lampkin, p. 218.
- A Convenient Method for Referring Secondary Frequency Standards to a Standard Time Interval.—L. M. Hull and J. K. Clapp, p. 279.
- A System for Frequency Measurements based on a Single Frequency.—E. L. Hall, p. 279.
- The Calibration and Construction of a Standard Frequency Meter.—T. D. Parkin, p. 396.
- Über ein Verfahren zur Beurteilung statischer Häufigkeitskurven (A Procedure for the Judging of Static Frequency or Distribution Curves).—H. C. Plaut, p. 398.
- Constancy of Oscillator Frequency, p. 457.
- A Direct Reading Frequency Bridge for the Audio Range, based on Hay's Bridge Circuit.—C. I. Soucy and B. de F. Bayly, p. 457.
- Frequency Measurements of Radio Waves Received, and Calibration of Waveometers by Standard Frequencies Transmitted.—S. Ishikawa, p. 517.
- Beitrag zur Herstellung Konstanter Schwingungsfrequenzen eines Röhrengenerators (A Contribution towards the Production of a Constant Frequency in a Valve Generator).—F. Maske, p. 517.
- A High Precision Standard of Frequency.—W. A. Morrison, p. 639.
- New Type of Precision Frequency Changer for Instrument Calibration.—E. H. Greibach, p. 641.
- Long Period Moving Coil Galvanometers.—C. V. Drysdale, p. 49.
- A Gang Capacitor Testing Device.—V. M. Graham, p. 49.
- Note on a Piezo-electric Generator for Audio-frequencies.—A. Hund, p. 397.
- New German Standards of Frequency, p. 639.
- Das Röhrenvoltmeter als Anzeigegerät für Oberwellen (The Thermionic Voltmeter as an Indicating Instrument for Harmonics).—W. Deutschmann, p. 280.
- Oscillation in Ultrasonic Generators and Velocity of Longitudinal Vibrations in Solids at High Frequencies.—R. W. Boyle and D. O. Sproule, p. 160.
- An Instrument for the Production of Known Small High-frequency Alternating Electromotive Forces.—B. S. Smith and F. D. Smith, p. 160.
- High-frequency Measurements.—M. v. Ardenne, p. 396.
- The Errors associated with High Resistances in Alternating Current Measurements.—R. Davis, p. 49.
- Die Verwendung von Blitzschutzlampen als Indikatorröhren (The Use of Lightning-protector Lamps as Indicator-bulbs).—E. Hiedemann, p. 517.
- An Extension of the Method of Measuring Inductances and Capacities.—S. Harris, p. 336.
- The Measurement of the Inductances and Effective Resistances of Iron-Cored Coils carrying both Direct and Alternating Current.—L. Hartshorn, p. 336.

- Mutual Inductance and Torque Between Two Concentric Solenoids.**—C. Snow, p. 338.
Supplementary Note to "Abbreviated Method for Calculating the Inductance of Irregular Plane Polygons of Round Wire."—V. I. Bashenoff, p. 111.
Eine verallgemeinerte Methode zur Berechnung der Induktivitäten ebener Figuren beliebiger Form (A General Method for the Calculation of the Inductance of Plane Figures of any Shape).—V. I. Bashenoff, p. 338.
The Constant Impedance Method for Measuring Inductance of Choke Coils.—H. M. Turner, p. 110.
A Bridge Circuit for Measuring the Inductance of Coils while passing Direct Current.—V. D. Landon, p. 219.
A Comparison of the Formulas for the Calculation of the Inductance of Coils and Spirals wound with Wire of Large Cross Section.—F. W. Grover, p. 582.
Simple Inductance Formulas for Radio Coils.—H. A. Wheeler, p. 49.
Simple Inductance Formulas for Radio Coils, p. 338.
The Establishment of a General Formula for the Inductance of Single-turn Circuits of any Shape—V. I. Bashenoff, p. 398.
Methods for the Derivation and Expansion of Formulas for the Mutual Inductance of Coaxial Circles and for the Inductance of Single-layer Solenoids.—F. W. Grover, p. 220.
Mesure des Valeurs maximas instantanées des Tensions à brusques Variations (Measurement of Instantaneous Maximum Values of Suddenly Varying Tensions).—H. André, p. 583.
Recent Progress in Measuring Instruments (Extra High Voltage).—A. Imhof, p. 640.
Beitrag zur Messung der Spannungsverteilung auf Isolatoroberflächen (Contributions to the Measurement of Voltage-distribution on the Surface of Insulators).—P. Puhides and A. L. Müller, p. 278.
A Sonic Interferometer for Measuring Compressional Velocities in Liquids: A Precision Method.—A. L. Loonis and J. C. Hubbard, p. 339.
Die Wellenkontrolle der Internationalen Rundspruchunion (The Wave Control of the International Radiotelephony Union).—G. A. Schwaiger, p. 336.
Use of the Thermionic Valve in Measurements of Ionisation Currents.—J. A. C. Teegan, p. 516.
Maintaining H.F. Oscillations by the Johnsen-Rahbek Effect.—F. L. Hopwood, p. 639.
Note on the Ratio of the Electromagnetic to the Electrostatic Unit of Electricity as compared to the Velocity of Light.—H. L. Curtis, p. 582.
Die Bestimmung der Lichtgeschwindigkeit unter Verwendung des elektrooptischen Kerr-Effektes (Measuring the Velocity of Light by the Electro-optical Kerr Effect).—A. Karolus and O. Mittelstaedt, p. 221.
A Logarithmic Deflection Indicator.—M. B. Manifold and A. S. Radford, p. 397.
Loud Speakers: recent work on, p. 50.
Appareil à Lecture directe pour la Mesure des Champs magnétiques "Gaussmètric" (Direct-reading Instrument for the Measurement of Magnetic Fields: the Gaussmeter).—G. Dupont, p. 519.
Zur Messung der magnetischen Permeabilität von Eisendrahten bei Hochfrequenz in der Wheatstoneschen Brücke (The Measurement of the Magnetic Permeability of Iron Wires for High Frequency, in a Wheatstone Bridge).—K. Kreisheimer, p. 641.
An Apparatus for the Measurement of Magnetic Susceptibility.—W. Sneddon, p. 641.
Dynamic Study of Magnetostriction.—K. C. Black, p. 48.
Note on Magnetostriction and Allied Phenomena.—J. H. Vincent, p. 335.
Magnetostriction: Remarks on Schulze's Results.—L. W. McKeekan, p. 518.
Magnetostriction of Diamagnetic Substances in Strong Magnetic Fields.—P. Kapitza, p. 518.
Über die Magnetostruktur der Eiseneinkristalle (The Magneto-striction of a Single Crystal of Iron).—N. Akulov, p. 338.
Magnetostriction in Nickel Steels.—J. S. Rankin, p. 398.
The Maintenance of Mechanical Oscillations by Magnetostriction.—J. H. Vincent, p. 110.
Magnetostriction Oscillators.—G. W. Pierce, p. 217.
Frequency Stability by Magnetostriction Oscillators.—H. P. Westman, p. 160.
Magnetostriction and the Phenomena of the Curie Point.—R. H. Fowler and P. Kapitza, p. 398.
Experiments on Magnetostrictive Oscillators at Radio Frequencies.—J. H. Vincent, p. 518.
Magnetostriktive Schwingungen (Magnetostrictive Oscillations).—E. Kopilowitsch, p. 518.
Experiments on Magnetostrictive Oscillators at Radio Frequencies.—J. H. Vincent, p. 639.
A New Microammeter.—P. 221.
A New A.C. Microammeter.—P. 338.
The Use of the Electron Tube Peak Voltmeter for the Measurement of Modulation.—C. B. Jolliffe, p. 459.
Portable Modulation-Meters.—E. Takagishi and S. Ueno, p. 641.
The Modulometer; a Simple Device for Measuring the Percentage of Modulation and generally Checking the Performance of the Phone Transmitter.—J. J. Lamb, p. 641.
The Frequency Measurement Problem: Applications of the Monitor in Transmitter Setting and Signal Checking.—R. A. Hull, p. 160.
Die Messung hochfrequenter Wechselströme mit Drehspulinstrumenten (The Measurement of H.F. Currents with Moving Coil Instruments).—R. Mücke, p. 641.
Multivibrator Circuit using Four-electrode Valve, p. 458.
Sur les Vibrations suivant l'Axe optique dans un Quartz piézoélectrique oscillant (On the Vibrations following the Optical Axis in an Oscillating Piezoelectric Quartz Crystal).—E. P. Tawil, p. 581.
An Optical Lever for Measuring Thickness Changes of Mica to an Accuracy of about 1.5×10^{-8} cm.—W. N. Bond, p. 519.
Protection against Overloading a Piezo-Crystal, p. 218.
Sur un Pendule Très Peu Amorti (A Very Lightly Damped Pendulum).—R. Planiol, p. 160.
The Effect of Tension and of a Longitudinal Magnetic Field on the Thermo-electromotive Forces in Permalloy.—A. W. Smith and J. Dellinger, p. 640.
A Phonic Motor and Slave Fork.—D. C. Gall, p. 219.
Vibrationsrelais und phonisches Rad mit Unterbrecher (Vibration Relay and Phonic Wheel with Interrupter).—R. Skancke, p. 219.
Enregistrement photographique d'une Vitesse angulaire. Application aux Mesures balistiques (Photographic Recording of an Angular Velocity: Application to Ballistic Measurements).—A. Guillet, p. 220.
Misura delle Correnti ad alta Frequenza con Metodo fotometrico (H.F. Current Measurement by a Photometric Method).—G. Pession and T. Gorio, p. 220.
Piezoelectric Control of Low Frequency Oscillations, p. 458.
Piezoelectric Control Patents, p. 518.
Piezo-Electric Crystal Preparation, p. 218.
Growing Crystals for Piezoelectric Elements, p. 582.
Erzeugung und Untersuchung Nichtkristalliner piezoelektrischer Stoffe (The Formation and Investigation of Non-crystalline Piezoelectric Materials).—A. Meissner, p. 159.
Piezo-electric Oscillator Circuits with Four-electrode Tubes.—J. R. Harrison, p. 109.
The Piezo-Electric Crystal Oscillator.—J. W. Wright, p. 217.
Piezoelectric Patents, p. 458.
Les Vibrations du Quartz. Piézoélectrique rendues visibles en Lumière polarisée (The Vibrations of Piezoelectric Quartz rendered Visible by Polarised Light).—E. P. Tawil, p. 335.
General Properties of Piezo-Electric Quartz and the Value of a Quartz Oscillator as a Frequency Standard.—S. Namba and S. Matsumura, p. 397.
Piezoelectric Wave Control, p. 459.
The Piezoelectrical Properties of Amorphous and Crystalline Substances in an Electric Field.—A. Subnikov and B. Brunovskij, p. 582.
Visual Observation of Piezo-electrical Oscillations, p. 218.
Untersuchung über Pyro- und Piezoelektrizität (An Investigation into Pyro- and Piezoelectricity).—A. Meissner, p. 582.
A Portable Crystal-controlled Transmitter.—D. J. Angus, p. 161.
A Portable Radio Intensity-Measuring Apparatus for High Frequencies.—J. Hollingworth and R. Naismith, p. 459.
A Portable Radio Intensity-Measuring Apparatus for High Frequencies.—J. Hollingworth and R. Naismith, p. 639.
Ein neuer Ohmscher Spannungsteiler für Hochfrequenz (A New Ohmic Potential Divider for H.F.).—M. v. Ardenne, p. 583.
A Vacuum Tube Potentiometer for Rapid E.M.F. Measurements.—H. M. Partridge, p. 516.
A Valve Potentiometer for High and Low Frequency Measurements.—p. 338.
The Thermionic Valve Potentiometer for E.M.F. Measurements.—H. M. Partridge, p. 338.
A New Alternating Current Potentiometer of Larsen Type.—A. Campbell, p. 221.
The Use of the Quadrant Electronometer as a Ballistic Energy Meter.—P. D. Morgan and S. Whitehead, p. 640.
A Very Sensitive Quadrant Galvanometer.—W. F. G. Swann, p. 640.
Elastic Constants of Fused Quartz. Change of Young's Modulus with Temperature.—H. D. H. Drane, p. 398.
The Formula for the Optical Rotatory Dispersion of Quartz.—T. Bradshaw and G. H. Livens, p. 398.
Untersuchungen über die Anfangsströme im Quarz (Investigations on the Initial Currents in Quartz).—A. D. Goldammer, p. 397.
Die Abhängigkeit der Piezoelektrischen Konstante bei Quarz von der Temperatur (The Temperature-variation of the Piezoelectric Constant of Quartz).—A. Andreeff, V. Fréderiksz and I. Kazarnowsky, p. 459.
Sur un nouvel Emploi des Quartz piézoélectriques (A New Use for Piezoelectric Quartz).—G. Siadbei, p. 456.
Quartz Control of Short Wave Receivers, p. 573.
On the Modes of Vibration of Quartz Crystal.—J. W. Harding and F. W. G. White, p. 582.
The Temperature Coefficient of Quartz Crystal Oscillators.—R. S. Strout, p. 160.
Observations on Modes of Vibration and Temperature Coefficients of Quartz Crystal Plates.—F. R. Lack, p. 518.

- Observations on Modes of Vibration and Temperature Coefficients of Quartz Crystal Plates.—F. R. Lack, p. 582.
- Nouveau Mode de Développement d'Électricité par Torsion dans les Cristeaux de Quartz (New Method of Developing Electricity by Torsion in Quartz Crystals).—E. P. Tawil, p. 159.
- Die Temperaturabhängigkeit der Frequenz des Quarzresonators (The Variation with Temperature of the Frequency of Quartz Oscillators).—F. Gerth and H. Rochow, p. 159.
- The Dependence of the Frequency of Quartz Piezo-electric Oscillators upon Circuit Constants.—E. M. Terry, p. 109.
- A Visual Method for Studying Modes of Vibration of Quartz Plates.—A. M. Skellett, p. 48.
- Development of Formulae for the Constants of the Equivalent Electrical Circuit of a Quartz Resonator in Terms of the Elastic and Piezo-Electric Constants.—P. Vigoureux, p. 109.
- A Measurement of Radiation at about 5μ .—K. E. Gould, p. 339.
- Resonance Radiometry.—A. H. Pfund, p. 337.
- Influence of a Vacuum on the Radium Clock.—S. Borovik and Afanasyeva, p. 398.
- Die Beeinflussung des piezoelektrischen Verhaltens einer Quarzplatte durch Radiumbestrahlung (The Effect of Radium Radiation on the Piezo-electric Behaviour of a Quartz Plate).—J. Laimbeck, p. 398.
- Piezoelectric Resonance-Relay, p. 397.
- Die Messungen des Widerstandes von Antennenseilen bei hohen Frequenzen (The Measurement of the Resistance of Stranded Aerial Wire at High Frequencies).—W. P. Jakowleff, p. 49.
- Messung von Antennenwiderständen (Measurement of Aerial Resistance).—W. P. Jakowleff, p. 49.
- A Direct-Reading Instrument for Measuring Low Resistances.—L. H. Bainbridge-Bell, p. 388.
- La Méthode Chirix pour les Mesures de Résistance en Haute Fréquence (The Chirix Method for the Measurement of H.F. Resistances).—J. Morel, p. 396.
- The Errors associated with High Resistances in A.C. Measurements.—R. Davis, p. 111.
- Piezoelectric Glow Resonance Indicator, p. 458.
- Über die Messung der Gitter-Anode-Capazität von Schirmgitterröhren (The Measurement of the Grid-Anode Capacity of Screen-grid Valves).—E. Klotz, p. 161.
- A General Theorem on Screened Impedance.—R. M. Wilmette, p. 49.
- Augmentation de la Sensibilité des Appareils de Mesures Électriques à Pivots (Increasing the Sensitivity of Pivoted Electrical Measuring Instruments).—Querryon, p. 397.
- Die Bestimmung der Brauchbarkeit von Spulen (The Determination of the Serviceability of Coils).—H. Kottas, p. 459.
- Shielding in High-Frequency Measurements.—J. G. Ferguson, p. 583.
- Shielding and Guarding Electrical Apparatus Used in Measurements (General Principles).—H. L. Curtis, p. 519.
- Short Wave Signal Strength Measuring Apparatus.—T. L. Eckersley, p. 517.
- Gekreuzte Zylinder als Funkenstrecke (Crossed Cylinders as Spark Gap).—E. Werner, p. 583.
- Internationale Vergleichungen von Frequenznormalen für elektrische Schwingungen (International Comparisons of Frequency Standards for Electrical Oscillations).—E. Giebe and A. Schiebel, p. 458.
- The Calibration and Construction of a Standard Frequency Meter.—T. D. Parkin, p. 517.
- A High Precision Standard of Frequency.—W. A. Morrison, p. 518.
- Standardisation of Frequency.—S. Jimbo, p. 336.
- The Vibration Galvanometer observed Stroboscopically.—J. B. Saunders, p. 49.
- Radio Receiver Testing Equipment.—K. W. Jarvis, p. 459.
- A Testing Set for Transmitting Valves.—Y. Kusunose, p. 519.
- A New Resistance Testing Set.—Everesh and Vignoles, p. 641.
- Thermo-couple Milliammeter and Ammeter, p. 219.
- Zur Korrektur von Thermoelementen bei Temperaturschwankungen der kalten Lötstelle (The Correction of Thermo-elements for Temperature Variations of the Cold Junction).—U. Retzow, p. 397.
- A Thermostat Constant to One-thousandth of a Degree Centigrade.—F. R. Winton, p. 518.
- Beobachtung und Registrirung von Dickenänderungen dünner Drähte (Detection and Recording of Thickness Variations in Thin Wires).—W. W. Loebbe and C. Samson, p. 519.
- A Device for Accurate Timing.—H. L. Johnston, p. 221.
- The High-frequency Resistance of Toroidal Coils.—S. Butterworth, p. 111.
- Ein neuer Spannungswandler (A New Voltage-transformer).—A. Imhof, p. 160.
- The Transmission Unit and Its Application to Radio Measurements.—J. F. Herd, p. 111.
- Some Properties of a Fused Silica Tuning-fork.—E. A. Harrington, p. 336.
- Étude préliminaire d'un Diapason de Quartz dans un Vide élevé (Preliminary Study of a Quartz Tuning-fork in a High Vacuum).—Holweck and Lejay, p. 457.
- Ein einfacher Versuch zur Bestimmung der Schwingungszahl einer Stimmablage (A Simple Test for Determining the Frequency of a Tuning Fork).—K. Gentil, p. 517.
- The Vibrations of Tuning-forks.—E. A. Harrington, p. 47.
- L'Étalonnage des Diapasons servant de base aux Mesures des Fréquences Radiotélégraphiques (The Calibration of Tuning Forks used for Radiotelegraphic Frequency Measurements).—B. Decaux, p. 218.
- An Electrically Maintained Tuning Fork with a Calibrated Speed Adjustment.—D. C. Gall, p. 219.
- A Tuning-fork Controlled Audio-Oscillator.—C. L. Lyons, p. 110.
- Über die vernüttete einer Stimmablage erzeugten Eōhrenoszillatoren (Valve Oscillators driven by Tuning-fork).—Y. Watanabe, p. 48.
- Note on an Application of the Whiddington Ultra-Micrometer.—H. Lloyd, p. 335.
- On the Ultramicrometer of Dowling.—S. Ekelöf, p. 519.
- The High Frequency Ultra-Micrometer.—L. Richtera, p. 519.
- Unbalance in Circuits.—M. Reed, p. 641.
- Unité de Electrical Transmission.—J. W. Horton, p. 339.
- Eine vereinfachte Schaltung für die Aufnahme von Röhrenkennlinien (A Simplified Arrangement for Plotting Valve Characteristics).—L. Bergmann, p. 47.
- Measurement of Very Small D.C. Currents.—J. Zenneck, p. 219.
- Registrierendes Präzisionsgerät für sehr schwache Strome (Precision Recording Apparatus for Very Weak Currents).—C. Müller and R. Frisch, p. 280.
- An Instrument for Measuring Small Amplitudes of Vibrations.—W. Bratt, p. 519.
- Einige Messungen über die Hochfrequenzspannungen an der Eingangssseite von Empfängern (Some Measurements of H.F. Voltage at the Input End of Receivers).—M. v. Ardenne, p. 161.
- High Voltage Measurement.—J. S. Carroll and B. Cozzens, p. 338.
- Ein Gerät zur Messung von Maximalspannungen in Fernsprechübertragungssystemen (An Apparatus for the Measurement of Maximum Peak Voltages in Telephone Transmission Systems).—D. Thierbach, p. 279.
- A Sensitive Vacuum Tube Voltmeter.—C. B. Aiken, p. 160.
- Vacuum-Tube Voltmeter Design.—H. R. Lubcke, p. 458.
- A Useful Design of Tube-Voltmeter.—W. F. Powers and G. W. Alderman, p. 160.
- Das selbstgleichrichtende Röhrenvoltmeter (The Self-rectifying Thermionic Voltmeter).—C. G. Suits, p. 640.
- Ein Hochspannungsvoltmeter (A High Voltage Voltmeter).—A. Nickuradse, p. 641.
- The Problem of "Turn-over" as applied to Valve-Voltmeters.—M. Reed, p. 459.
- Rectifier Voltmeters, etc., p. 219.
- Demonstration statischer Hochspannungsvoltmeter (Demonstration of a Static H.T. Voltmeter).—H. Starke, p. 220.
- A Modulated Wavemeter; an Aid to Accurate Tuning and Distant Reception.—H. B. Dent, p. 517.

SUBSIDIARY APPARATUS.

- A Battery Revolution: the Drumlin Accumulator, p. 584.
- Un Travail expérimental recent sur la Théorie de l'Accumulateur au Plomb (A Recent Research on the Theory of the Lead Accumulator).—Ch. Féry; A. P. Rollet, p. 642.
- Nouvel Alliage magnétique (A New Magnetic Alloy).—Siemens and Halske Co., p. 641.
- Les Alliages légers de haute Conductivité: leur Emploi dans la Construction des Lignes électriques (Light Alloys of High Conductivity: their Use in the Construction of Electric Lines).—H. Chaumat, p. 522.
- Alternators and Rotary Transformers for A.C. of High Frequency, p. 520.
- Ergebnisse mit Aluminiumleitungen (Experience with Aluminium Conductors), p. 164.
- A Portable Electric Harmonic Analyser, p. 164.
- A Low Power Audio-Frequency Current Supply for General Laboratory Use.—C. W. Oatley, p. 520.
- Automatic Control of Frequency and Load.—H. A. McCrea, p. 522.
- A Barretter with Long Life, p. 460.
- Automatic Battery Charging.—O. Gramisch, p. 459.
- The Diverter Pole Generator for Battery-Charging.—E. D. Smith, p. 222.
- Carboloy—A New Tool Material.—S. L. Hoyt, p. 282.
- Carbolite, Its Production and Properties.—P. A. Florensky, p. 521.
- The Effect of Gases on the Resistance of Granular Carbon Contacts.—P. S. Olmstead, p. 584.
- Glass Window Cathode Ray Tubes.—C. M. Slack, p. 642.
- Cathode Rays as a Laboratory Tool, p. 163.
- Sur les Piles à Electrolyte fondu: la Pile Oxyde de Cuivre-Soude Caustique fondue-Zinc (Cells with Molten Electrolyte: the Copper Oxide—Molten Caustic Soda-Zinc Cell).—G. I. Costeau, p. 585.
- Choke-coils with Saturated Iron Cores.—F. Ollendorff, p. 342.
- Sparkless Commutation, p. 399.
- Ein Messkondensator für Hochspannungen (A Test Condenser for Extra High Tensions).—R. Vieweg and H. Schering, p. 163.
- A Test Condenser for Extra High Tensions.—R. Vieweg and H. Schering, p. 341.
- A Variable Condenser without Initial Capacity, p. 643.

- Der Weg zum Farad (The Achievement of Farad Condensers).—v. Hartel, p. 221.
- An Improved Constant Current Regulator.—L. G. Longsworth and D. A. MacInnes, p. 583.
- Convertisseur de Courant électrique de Grande Puissance à Étincelle Pilote (High Power Current Converter with Pilot Spark).—P. Toulon, p. 339.
- Constant Speed Coupling.—J. P. Hall & Co., p. 522.
- Über punktförmige Aufnahmen von Wechselstromkurven insbesondere bei höherer Frequenz (Point by Point Plotting of A.C. curves, especially at Higher Frequencies).—F. Eisner, p. 164.
- An Improved Rosa Curve Tracer.—H. E. Bonn, p. 163.
- Die Castings in the Modern Radio.—L. H. Pillon, p. 399.
- The Nature of Dielectric Losses.—H. Schiller, p. 462.
- Die Abhängigkeit der Dielektrizitätskonstante Technischer Isolierstoffe von der Frequenz (The Dependence on Frequency of the Dielectric Constant of Commercial Insulating Materials).—P. Böning, p. 461.
- The Determination of the Dielectric Constants of Imperfect Insulators.—R. L. Lattey and O. Gatty, p. 521.
- Pertes Diélectriques : leur Mesure dans la Technique industrielle (Dielectric Losses ; Their Measurement in Industrial Technique).—J. Absil, p. 643.
- The Properties of Dielectrics. I.—Electric Moment and Molecular Structure.—C. P. Smyth, p. 521.
- Direct-current Generators of Very High Voltage.—S. R. Bergman, p. 162.
- La Théorie électronique et le Mécanisme de l'Effet de Soupe dans les Cellules électrolytiques (The Electronic Theory and the Mechanism of the Valve Effect of Electrolytic Cells).—R. Audubert p. 340.
- Valve Effect of Electrolytic Cells.—L. Dubar and R. Audubert, p. 642.
- The Aluminium Electrolytic Condenser.—H. O. Siegmund, p. 342.
- The Aluminium Electrolytic Condenser.—R. E. W. Maddison, p. 642.
- On the Capacity of Dry Electrolytic Condensers.—P. R. Coursey, p. 399.
- The Aluminium Electrolytic Rectifier.—W. E. Holland, p. 521.
- Radio Battery Eliminators, p. 642.
- Die Abisolierung von Emaildrähten (The Cleaning of Enamel-covered Wires), p. 643.
- The Everlite Lamp : a Battery Lamp Unit for which Efficiency and Economy are Claimed, p. 282.
- Ferromagnetic Ferric Oxide.—E. F. Herroun and E. Wilson, p. 282.
- Speed Indicator and Frequency Meter.—E. H. Greibach, p. 584.
- Beseitigung der Nebenfrequenzen beim statischen Frequenzwandler (Suppression of Secondary Frequencies in Static Frequency Multipliers).—H. Freese, p. 280.
- Beseitigung der Nebenfrequenzen beim statischen Frequenzwandler (Suppression of Secondary Frequencies in Static Frequency Multipliers).—H. Freese, pp. 280-281.
- Suppression of Secondary Frequencies in Static Frequency Multipliers : Comments and Reply.—H. Freese, p. 521.
- Application du Démultiplicateur Statique de Fréquence à l'Oscillographie Cathodique (Application of the Static Frequency Transformer to the Cathode-ray Oscilloscope).—F. Vecchiacci, p. 340.
- The Application of the Properties of Thin Metal Films to the Manufacture of Delicate Electric Fuses, p. 340.
- Tungsten Filament Vacuum Fuses, p. 222.
- The Construction and Calibration of a Sensitive Form of Pirani Gauge for the Measurement of High Vacua.—L. F. Stanley, p. 341.
- On Some Vacuum Recording Gauges.—K. C. D. Hickman. And A Modified Pirani Vacuum Gauge.—T. De Vries, p. 521.
- German P.O. Power Plants for Wireless Purposes.—Stüber, p. 643.
- The Behaviour of Glass as a Dielectric in Alternating Current Circuits : Part II.—The Effect of Frequency and of Temperature upon the Power Loss.—L. S. McDowell and H. L. Begeman, p. 341.
- Über die durch Kathodenstrahlen bewirkte elektrische Aufladung des Glases und deren praktische Verwendung (The Charge on Glass produced by Cathode Rays, and its Practical Utilisation).—P. Selenyi, p. 280.
- Metal to Glass Electrode Seals.—D. R. Barber, p. 342.
- Joining Glass to Metal by Soldering, p. 342.
- Lenard Ray Tube with Glass Window.—C. M. Slack, p. 341.
- The Influence of Glaze on Insulator Strength.—D. H. Rowland, p. 342.
- Glimmstrecken-Spannungsteiler für Netzanschluss der Anoden- und Gitterspannungen (Glow-discharge-gap Voltage-dividers for Mains Supply of Anode and Grid Voltages).—L. Koros, p. 460.
- Osrarn-Hochspannungs-Glimmlampe (Osram High Voltage Glow Lamp), p. 50.
- Centrifugal Governor, p. 222.
- A Governor for H.F. Machines (German Patent 461,905, Lorenz), p. 50.
- Governor for H.F. Generators, p. 222.
- Über ein hochempfindliches Messinstrument für Wärmestrahlung (A highly sensitive measuring instrument for heat radiation).—G. Hettner, p. 164.
- Fortschritte im Bau von Mittel- und Hochfrequenzmaschinen (Progress in the Construction of Medium and High Frequency Machines).—F. Schmidt, p. 112.
- Suppression of Disturbing Pulsations in H.F. Generators, p. 222.
- Hochspannungs-Gleichstrom-Maschinen der A.G. Bayerische Elektrizitäts-Werke in Landshut (High Tension Direct Current Generators made by the Bavarian Electrical Works at Landshut), p. 585.
- High Tension Direct Current Generators, p. 643.
- A Braun Tube Hysteresisgraph.—J. B. Johnson, p. 399.
- Magnetische Hysterese bei hoher Frequenz (Magnetic Hysteresis at High Frequencies).—W. Neumann, p. 50.
- An Unusual Way of Insulating a Heating Element, p. 282.
- Dielektrizitätskonstante und Leitfähigkeit technischer Isolierstoffe und die Gestaltung der Stromkurve beim Stromdurchgang (The Dielectric Constant and Conductivity of Commercial Insulating Materials, and the Form of the Current Curve).—P. Böning, p. 521.
- Electrical Insulating Materials from a Chemical Standpoint.—W. H. Nuttall, p. 281.
- Electrotechnical Insulating Materials.—H. Stäger, p. 462.
- The Losses in Laminated Insulating Materials.—W. Burstyn, p. 462.
- Untersuchungen über den Durchschlag und die Verluste einiger fester Isolierstoffe (Investigations into the Breakdown and Losses of Some Solid Insulating Materials).—K. Halbach, p. 584.
- Surface Discharge and High Voltage Insulation.—S. Mochizuki, p. 461.
- Durchschlag von festen Isolatoren bei Hochfrequenz (The Breakdown of Solid Insulators by High Frequency).—L. Inge and A. Walther, p. 281.
- Breakdown of Solid Insulators : of Glass in D.C. and Alternating Fields : of Porcelain ; of Impregnated Paper. On the Heat Theory of Electrical Breakdown ; etc.—Walther, Kobeko and others, p. 521.
- Einfluss der Luftfeuchtigkeit auf den Überschlag von Isolatoren (Influence of atmospheric humidity on the Flash-over of Insulators).—W. Weicker, p. 164.
- Improvements in H.T. Insulators, p. 461.
- Die physikalische Natur der elektrischen Vorgänge in homogenen Isolatoren (The Physical Nature of the Electrical Processes in Homogeneous Insulators).—A. Smirnov, p. 521.
- Machine for Integrating a Functional Product.—K. E. Gould, p. 585.
- Cooling of R.F. Iron-Cored Coils, p. 461.
- Zur Beurteilung von Eisenkernen in der Schwachstromtechnik (Considerations in the Design of Iron Cores in Small-Current Apparatus).—G. Lohmann, p. 643.
- Note on High Voltage Leyden Jars.—P. P. Quavle, p. 584.
- Tests on Vacuum Lighting Arresters for Communication Lines.—T. Nishi and M. Hoshiai, p. 281.
- Eine neue Schaltung zur Erzeugung von Schwingungen mit linearem Spannungsverlauf (A New Arrangement for the Production of Oscillations with Linear Voltage-Curve).—G. Frithauf, p. 280.
- Logarithmic Scale for Beat-Frequency Oscillator.—E. R. Meissner, p. 460.
- Magnet Cores, p. 164.
- Magnetic Alloys of Iron, Nickel and Cobalt.—G. W. Elmen, p. 461.
- Nickel-Iron Alloy for Magnetic Cores, p. 461.
- Shaded Magnetic Field of A.C. Magnets.—N. Andersen, p. 522.
- Magnetic Losses of Iron in High Frequency Alternating Current Fields.—J. R. Martin, p. 21.
- Design Methods for Soft Magnetic Materials in Radio.—J. Minton and J. G. Malott, p. 522.
- Über den Zusammenhang zwischen Korngrösse und magnetischen Eigenschaften bei reinem Eisen (The Relation between Grain Size and Magnetic Properties of Pure Iron).—G. T. Sizoo, p. 50.
- Über den Einfluss der Korngrösse auf die magnetischen Eigenschaften (On the Influence of Grain Size on the Magnetic Properties).—O. v. Auwers, p. 342.
- Megavox Eliminator : an H.T. Eliminator for A.C. Mains with Metal Oxide Rectifier of Universal Application to Receivers with Three and Four Valves. Part I.—W. I. G. Page, p. 164.
- New Investigations into the Functioning of Mercury Rectifiers.—J. v. Issendorff, p. 584.
- An Automatic Mercury Still.—F. L. Robeson, p. 342.
- Leitsätze für die Prüfung von Glimmererzeugnissen (Test Specifications for Mica Products), p. 340.
- The Mechanical Properties of Mica, p. 340.
- The neue Entwicklung des Glimmerkondensators (The New Development of the Mica Condenser).—F. Gerth and H. Gönnigen, p. 584.
- “Mycalex,” p. 462.
- A New Type of Low Frequency Low Voltage Discharge in a Neon Lamp.—G. R. Paranjpe and K. Sheshadriengar, p. 162.
- The Neon Lamp as Stabiliser : How Feed-back can be Avoided in Eliminators.—S. O. Pearson, p. 642.
- Der Neongas-Spannungsanzeiger (The Neon Tube Voltage Indicator), p. 163.
- The Electrical Conductivity of Thin Oil Films. Part I.—General Nature of the Phenomenon.—H. E. Watson and A. S. Menon, p. 281.

- The Direct Current Conductivity of Insulating Oils.—D. H. Black, p. 281.
- Aussenaufnahmen von Kathodenstrahloszilloskopogrammen durch Lenardfenster (External Recording of C-R-Oscillograms through a Lenard Window).—M. Knoll and — Stoerk, p. 341.
- Der Kathodenstrahl-Oszilloskop als Registrierinstrument, speziell für rasch verlaufende Vorgänge (The Cathode-ray Oscilloscope as a Registering Instrument, especially for rapidly occurring Processes).—K. Berger, p. 50.
- Die Kathodenstrahl-Oszillosgraphenröhre der Western Electric (The Western Electric Company's Cathode Ray Oscilloscope Tube), p. 112.
- A propos de la Théorie des Oscillographes et Appareils indicateurs (Concerning the Theory of Oscillographs and Indicating Instruments).—A. Blondel, and Sur la Théorie mathématique des Oscillographes (The Mathematical Theory of Oscillographs).—N. Bogoliuboff and N. Kryloff, p. 163.
- Constants of an Electromagnetic Oscilloscope.—A. E. Kennelly, p. 163.
- On the Use of the Dufour Cathode Ray Oscilloscope.—Bekku, Narasaki and Miyamoto, p. 163.
- Theorie van den Oscillograaf: Beweging van een Electron in een veld van hoge frequentie. Practische Methode voor het bepalen van Phaseverschillen (Theory of the Oscilloscope; Motion of an Electron in a H.F. Field; A Practical Method for Determining Phase Displacement).—A. v. Itterbeek, p. 222.
- An Optical Oscilloscope, p. 222.
- Cathode-ray Oscilloscope with Rapid Automatic Starter.—W. Krug, p. 460.
- A New Type of Hot Cathode Oscilloscope.—R. H. George, p. 584.
- Westinghouse "Osiso" Oscilloscope.—J. W. Legg, p. 642.
- Oscillographs for Recording Transient Phenomena.—W. A. Morrison, pp. 341 and 400.
- Ein Zeitkipper für den Kathodenoszilloskop (A Time-switch for Cathode-ray Oscilloscopes).—W. Rogowski and O. Wolff, p. 341.
- Ein- und Ausführung von Platten und Filmen an Kathodenoszilloskopern ohne Störung des Hochvakuum (Introduction and Removal of Plates and Films in Cathode-ray Oscilloscopes without Disturbing the High Vacuum).—P. Hochhäuser, p. 520.
- Vakuumtechnische Neuerungen an Kathodenoszilloskopern (New Methods of Vacuum Technique for Cathode Ray Oscilloscopes).—M. Knoll, p. 520.
- Removal of Films and Plates from C-R Oscilloscopes without Disturbing the Vacuum.—P. Hochhäuser, p. 584.
- Metallisierung von Papier (The Coating of Paper with Metal).—M. U. Schoop, p. 112.
- The Prevention of Ionisation in Paper Dielectrics.—S. G. Brown and P. A. Sporing, p. 340.
- Analysis of Papers Employed in Radio Manufacturing. 1.—The Microscope as an Asset in the Radio Laboratory.—I. L. Gartland, p. 399.
- Compressed Powdered Permalloy: Manufacture and Magnetic Properties.—W. J. Shackleton and I. G. Barber, p. 342.
- Magnetic Permeability of Iron and Magnets in High Frequency Alternating Fields.—G. R. Wait, p. 112.
- Ein einfaches Verfahren zur Abkürzung der Belichtungszeiten bei photographischen Aufnahmen (A Simple Way of Shortening the Exposure in Photographic Recording).—F. Ebert, p. 585.
- The Physical Society's Annual Exhibition, p. 163.
- L'Alimentation des Récepteurs radiotéléphoniques: État actuel, derniers Progrès (Power Supply for Radiotelephone Receivers: Present Position: Latest Progress).—L. G. Veysseyre, p. 282.
- Electrical Pressboards.—A. R. Dunton and A. W. Muir, p. 461.
- Les Piles électriques d'après les Brevets récents (Primary Batteries according to Recent Patents).—L. Jumau, p. 399.
- "Pyrex" Glass as a Dielectric.—C. L. Dawes and P. H. Humphries, p. 584.
- Die deutsche Raytheon-Röhre (The German Raytheon Valve).—H. Simon and M. Bärciss, p. 50.
- Recording by Perforating.—M. Metfessel, p. 399.
- A New Electrical Recording System.—B. H. C. Matthews, p. 520.
- Cold Storage Rectification.—A. E. Shaw, p. 460.
- Alternating Current Rectification as applied to Radio. Part I.—R. J. Krivter, p. 340.
- Rectification of Alternating Current, especially at High Tension, p. 521.
- Rectification of High Tension Alternating Current by Means of a Striated-Discharge Circuit.—T. Itoh, p. 585.
- The Theory of the Metal Rectifier: Some Notes on the Properties and Method of Using the Dry Metal Rectifiers.—Engineering Dept., Westinghouse Co., p. 282.
- The Duriron-Duralumin Electrolytic Rectifier.—N. E. Woidman, p. 282.
- A New Type of Rectifier Tube for Amateur Use.—O. W. Pike and H. T. Maser, p. 340.
- Ein neuer Glimmlichtröhren Gleichrichter (A New Glow-discharge Rectifier).—J. Preuss, p. 399.
- Telefunken Glow-discharge Rectifier for A.C. Mains, p. 521.
- Perfectionnement aux Rectificateurs électriques à Contact (Improvements to Contact Rectifiers).—Westinghouse El. & Mfg. Co., p. 164.
- Les Redresseurs de Courants Alternatifs (A.C. Rectifiers), p. 342.
- Les Redresseurs à Valve thermo-ionique (Thermionic Rectifiers), p. 342.
- Neue Glimmlichtgleichrichter (New Glow-discharge Rectifiers).—K. Teucke, p. 399.
- Les Redresseurs à Oxide de Cuivre (Copper Oxide Rectifiers).—M. Demontvignier, p. 521.
- A New Range of Dry Metal Rectifiers: A Voltage-doubling Bridge Circuit with Full-wave Rectification on Two Rectifier Units, p. 521.
- Modern Power Rectifiers (A.E.G.), p. 585.
- A.C. Rectifiers.—A. Soulier, p. 642.
- Der "Varta-Duplex" Radio-Gleichrichter (The "Varta-Duplex" Rectifying Set for Radio Purposes).—W. Müller, p. 461.
- Device for Regulating a Physical Phenomenon according to a Curve determined in advance, p. 164.
- Ein für praktische Verwendung geeignetes Verfahren für Spannungsregelung an Generatoren mit Hilfe von Hochvakuumröhren (A Practical Method of Generator Regulation by High Vacuum Tubes).—N. A. J. Voorhoeve, p. 162.
- Die Theorie des Telephonrels (The Theory of the Telephone Relay).—W. Th. Bahler, p. 282.
- Stromrelais mit geringem Eigenverbrauch (Current Relay with Small Consumption), p. 164.
- A New Signal Relay.—C. T. Burke, p. 585.
- Sparking and Arcing at Relay Contacts.—A. H. Jacquest and L. H. Harris, p. 643.
- Das Minimalimpedanzrelais (Minimum Impedance Relays).—H. Pupikofer, p. 585.
- Relays Functioning at a required Power Factor, p. 643.
- Über einen neuen Kohlewiderstand (A New Carbon Resistance).—Hartmann and H. Dossmann, p. 223.
- Über einen neuen Kohlewiderstand (A New Carbon Resistance).—C. A. Hartmann and H. Dossmann, p. 342.
- Dralowid-Variator (The "Dralowid" Variable Resistance), p. 342.
- Die selbstregelnden Harastate-Widerstände (Self-regulating Harastate Filament Resistances), p. 222.
- Weitere Untersuchungen an den Hochohmwiderränden (Further Investigations on High Resistances).—A. Gyemant, p. 282.
- Über Hochohmwiderrände und ein neues Verfahren zu ihrer Prüfung (High Ohmic Resistances, and a New Testing Process for Them).—G. Leithäuser, p. 642.
- Sur l'Éficacité des Écrans électrostatiques discontinus (The Effectiveness of Discontinuous Electrostatic Screens).—P. Bricout, p. 461.
- Das Versilbern von Kurzwelenspulen (The Silver-Plating of Short Wave Coils).—H. Thesing, p. 643.
- The Castle Sine-Wave Alternator.—J. H. Holmes & Co., p. 643.
- A Unique Method of Control by Means of Sound Waves.—A. B. Du Mont, p. 222.
- Konstanthaltung der Drehzahl von Maschinen für Signalfzwecke (Constant Maintenance of the Speed of Machines for Signalling Purposes).—W. Dornig, p. 111.
- Drehzahlregelung von Gleichstrommotoren mit Elektronenröhren (Speed Control of D.C. Motors by Valves).—E. Reimann, p. 111.
- Die Drehzahlregelung von Gleichstrommotoren mit Elektronenröhren (The Speed Regulation of D.C. Motors by Thermionic Valves).—E. Reimann, p. 583.
- Spiral Springs of Quartz.—K. Śliūpas, p. 341.
- "Stabilizzazioni" di Accensione per Apparecchi comportanti Tubi e Valvole termoioniche (Stabilisation of Filament Current for Thermionic Tube and Valve Apparatus).—E. Pugno-Vanoni, p. 522.
- Eine Ausgleichsschaltung mittels normaler Metallfadenlampen (A Stabilising Arrangement using ordinary Metal-filament Lamps).—H. Roder, p. 522.
- Transparent Steel, p. 112.
- Le Stroborama, nouvel Appareil Stroboscopique à grand Éclairage (The Stroborama, a new Stroboscope with High Illumination).—L. and A. Seguin, p. 341.
- Eine einfache Anordnung für stroboskopische Untersuchungen (A Simple Arrangement for Stroboscopic Investigations).—H. E. Linckl and R. Vieweg, p. 341.
- Dielectric Properties of the Sulphur-Rubber Combinations.—S. Kimura, T. Aizawa and T. Takeuchi, p. 340.
- Surges in Eliminator Smoothing Circuits, p. 164.
- Lightning Surges on Medium Voltage Power Networks, recorded by Cathode-ray Oscilloscope.—K. Berger, p. 460.
- Hochleistungsschalter ohne Öl (High-power Switches without Oil).—J. Biermanns, p. 584.
- Erfahrungen mit dem Tantalgleichrichter (Results with the Tantalum Rectifier).—F. Bödigheimer, p. 342.
- Les Redresseurs au Tantale (Tantalum Rectifiers).—J. Innocenti, p. 521.
- Ersatzschaltung für die Rückwirkung der Zunge des Resonanztelefons (Equivalent Circuit for the Reaction of the Reed of a Tuned Telephone).—F. Bergfeld, p. 643.
- Temperature Control Apparatus.—L. A. Richards, p. 339.
- Das Therinoelement Te/Bi und seine praktischen Anwendungen (The Tellurium-Bismuth Thermoelement and its Practical Use).—M. A. Lewitsky and M. A. Lukomsky, p. 520.

- Zernike Thermopile, p. 460.
 A Sensitive Thermo-Regulator.—D. H. Black, p. 163.
 A New Device for Thermostat Control.—H. F. T. Jarvis, p. 163.
 Magnetic Testing Furnace for Toroidal Cores.—G. A. Kelsall, p. 585.
 Mains Transformer Design: A New Method of Design Based on Assumed Dimensions of the Iron Core: Procedure for Determining the Actual Losses in Transformers.—H. B. Dent, p. 50.
 A Transformer for the Filament Current of High Tension Rectifying Valves.—E. P. Hudson and P. M. S. Blackett, p. 281.
 Über die Phasenlage des Magnetisierungssstromes des Lufttransformator (The Phase Conditions of the Magnetising Current of Air Core Transformers).—G. Hauffe, p. 341.
Triode Jumper.—H. Nakayama and K. Nagai, p. 399.
 Vakuum als Isolator (A Vacuum as Insulator).—W. Malischew, N. Semenov and N. Tomaschewsky, p. 222.
 The Insulating Power of a Vacuum.—N. W. Tomachewsky, p. 462.
 Über eine neue erschütterungsfreie Aufstellung für empfindliche Messinstrumente (A New Vibration-free Mounting for Sensitive Measuring Instruments).—R. Müller, p. 341.
 Arrangement for Obtaining an Alternating Current of Constant Voltage from an A.C. Supply of Variable Voltage, p. 339.
 Automatic Voltage Regulator for Direct Current.—G. T. Winch and A. Bone, p. 584.
 A New Automatic A.C. Voltage Regulator.—K. Howe, p. 522.
 Nouveau Régulateur automatique de Tension (A New Automatic Voltage Regulator).—P. Toulon, p. 583.
 A Precision Regulator for Alternating Voltage.—H. M. Stoller and J. R. Power, p. 339.
 A Thermionic-Valve Type Close Voltage Regulator.—F. C. Turner, p. 340.
 Hochfrequenz-Gleichrichter-Anlage mit automatischer Konstanthaltung der Gleichspannung (H.F. Rectifying Plant with Automatic D.C. Voltage Stabilisation).—P. Hermanspaan, p. 398.
 A High Speed Graphic Voltmeter for Recording Magnitude and Duration of System Disturbances.—A. F. Hamdi and H. D. Braley, p. 223.
 The Use of Wollaston Strip for Suspensions.—D. W. Dye, p. 460.
 An X-Ray Tube with Detachable Ends and Electrodes.—W. Band and A. J. Maddock, p. 399.

STATIONS, DESIGN AND OPERATION.

- Wireless Telephone Set for Light Aeroplanes, p. 586.
 Die neue Flughafenstation in Aspern (The new Air Station Transmitter at Aspern).—R. Linsmayer, p. 165.
 Amateur Status in Britain, p. 463.
 Die Sprache der Amateure (The Language of Amateurs).—R. Wigand, p. 463.
 The Army-Amateur Radio System is Revised, p. 343.
 Die Entwicklung des Rundfunks in Österreich (Broadcast Development in Austria), p. 166.
 Telephony with Australia, p. 523.
 Sydney Talks to New York: Australia's Latest Short-Wave Feat, p. 223.
 Interference-Elimination by the Baudot-Verdan System, p. 586.
 A Beam Wireless Development, p. 113.
 The New Broadcast Amplifier Plant in the Berlin Station (Illustrated).—K. Müller, p. 283.
 The New Erne Lists, p. 644.
 Some Studies of Radio Broadcast Coverage in the Middle West.—C. M. Jansky, Jr., p. 51.
 Some Principles of Broadcast Frequency Allocation.—L. E. Whittemore, p. 644.
 The Routine Measurement of the Operating Frequencies of Broadcast Stations.—H. L. Bogardus and C. T. Manning, p. 585.
 The Problem of International Distribution of Broadcast Wave-lengths; Proposals of the Polish Broadcasting Company.—W. S. Heller, p. 112.
 The Future of Wireless Broadcasting.—J. C. W. Reith, p. 343.
 United States Radio Broadcasting Development.—R. H. Marriott, p. 644.
 A New High Power Radio Broadcasting Equipment.—D. B. Mirk, p. 462.
 Tour d'Europe radiophonique (A Tour of Broadcasting Europe).—A. Surclamp, p. 586.
 Analysis of Broadcasting Station Allocation.—J. H. Dellinger, p. 112.
 Measurement of Wavelengths of Broadcasting Stations.—R. Braillard and E. Divoire, p. 585.
 Die Europäischen Rundfunkstationen (European Broadcasting Stations), p. 51.
 The Operation of Several Broadcasting Stations on the Same Wave-length.—P. P. Eckersley and A. B. Howe, p. 462.
 The Regulation of Broadcasting Stations as a Systems Problem.—E. L. Nelson, p. 644.
 High Power Broadcasting Transmitters, p. 223.
 Brookman's Park Broadcasting Station.—London Regional, p. 643.
 Die neuen Rufzeichen (The New Call Letters), p. 223.
 Broadcasting in Canada, p. 166.
- Gleichwellen-Rundfunk (Common Wavelength Broadcasting).—H. Göttlinger, p. 223.
 Der Gleichwellen-Rundfunk (Common Wave Broadcasting).—W. Hahnenmann and F. Gerth, p. 400.
 Common Wave Broadcasting; Phase-compensation of the Connecting Lines, p. 586.
 Compulsory Wireless at Sea, p. 586.
 Lautstärkeregelung (Volume Control).—H. Ziegler, p. 166.
 Amplitudenbegrenzer für Programmübertragung (Amplitude Control for Transmission of Programmes).—H. F. Mayer, p. 166.
 New Broadcasting Transmitter for Service in Czecho-Slovakia, p. 113.
 Ein Kurzwelldräger für die Tschecho-slowakei (A Short-Wave Transmitting Station for Czecho-Slovakia), p. 282.
 The Wave Propagation of the "Deutschland" Transmitting Station.—F. Kiebitz, p. 644.
 Drahtloses Gegensprechen (Duplex Wireless).—W. Hahn, p. 523.
 Duplex Arrangements, p. 523.
 T.S.F. et Education (Wireless and Education), p. 463.
 La Station de la Tour Eiffel (The Eiffel Tower Station).—G. Martin, p. 166.
 Horaires des Émissions radiotélégraphiques et radiotéléphoniques de la Station de la Tour Eiffel (The Daily Programme of Telegraphic and Telephonic Transmissions from the Eiffel Tower Station), p. 342.
 Die Fernsprechverbindung zwischen Europa und Amerika (The Telephony Link between Europe and America).—E. Woliner, p. 164.
 Engineering Aspects of the Work of the Federal Radio Commission.—J. H. Dellinger, p. 644.
 Émission Radiotéléphonique de Renseignements Géophysiques et Astrophysiques (Radiotelephonic Transmission of Geophysical and Astrophysical Information), p. 343.
 "World-broadcasting" for Germany, p. 113.
 Les Progrès des Communications télégraphiques et téléphoniques en Allemagne (Progress in telegraphic and telephonic communication in Germany), p. 166.
 Progress of Wireless Telegraphy and Telephony in Germany in 1928.—W. Wagner, p. 343.
 Progress of Broadcasting (Sound and Picture) in Germany in 1928.—W. Wagner, p. 343.
 Eröffnung der unmittelbaren Funkbindung Deutschland-Siam (Opening of the Direct Wireless Service between Germany and Siam), p. 523.
 Ein Blick in die Funkkabine des "Graf Zeppelin" (A Glimpse into the Wireless Cabin of the "Graf Zeppelin"), p. 223.
 Kurzwelldurchsuche bei der Amerikafahrt des Luftschiffes "Graf Zeppelin" (Short-wave Tests on the American Flight of the Airship "Graf Zeppelin"), p. 522.
 An Outline of the Radio Inspection Service.—A. Batcheller, p. 643.
 Heterodyne Interference in U.S.A. Broadcast Reception, p. 644.
 Kalundborg Radio.—K. Christiansen, p. 282.
 Marconi Portable Short-Wave Military Transmitter and Receiver, Type S.A.I., p. 400.
 The Marconi-Mathieu Method of Multiplex Signalling.—G. A. Mathieu, p. 523.
 Le Multiplex Marconi-Mathieu pour Radio-signalisation (The Marconi-Mathieu Method of Multiplex Signalling).—G. A. Mathieu, p. 644.
 Les Codes Météorologiques (The Meteorological Codes), p. 165.
 Les Codes Météorologiques (The Meteorological Codes), p. 400.
 Effect of Signal Distortion on Morse Telegraph Transmission Quality.—J. Herman, p. 400.
 Extension of Polish Broadcasting Organisation, p. 644.
 Is the Prague Plan Sound?—J. G. Abrahams, p. 462.
 La nouvelle Convention radioélectrique de Prague et la Suppression des Interférences entre les Émissions de Radio-diffusion (The New Prague Radio-electric Convention, and the Suppression of Interference between Broadcasting Stations).—M. Adam, p. 523.
 The Prague Conference, p. 535.
 The Problems of Radio Servicing.—J. F. Rider, p. 585.
 Ein neuer Rückkopplungssperrer (A New Reaction Suppressor).—W. Hahn and H. Warncke, p. 164.
 Selectivity and the Regional Scheme; Discussion.—G. Leslie and others, p. 343.
 Radiotelegraphic Centre at Rome (San Paolo).—G. Pession and G. Montefinali, p. 50.
 Änderung der russischen Rundfunkorganisation (Change in Broadcasting Organisation in Russia), p. 113.
 S.F.R. Short Wave Transmitter for Long Distance Telegraphy (15 kw. to the aerial) and Telephony (9 kw.), p. 586.
 Réception à Ondes Courtes, Type S.F.R. pour Grand Trafic Télégraphique et Téléphonique (Type S.F.R. Short Wave Reception for Heavy Telegraphic and Telephonic Traffic), p. 586.
 Nauen to Buenos Aires: a Description of the Short-wave Beam Transmitting Stations, p. 165.
 Poste à Ondes Courtes, Type A.C.1 (Short Wave Set, Type A.C.1), p. 165.
 Poste à Ondes Courtes Type H.C.8 pour Hydravions et Avions (Short Wave Set Type H.C.8 for Seaplanes and Aeroplanes), p. 165.

- Lay-out and Tests of a Short-Wave Transmitter.** Part I—Design ; Part II—Results of Tests.—E. Takagishi, E. Iso and S. Kawazoe, p. 400.
- Trasmettitori a Onda Corta per 1 Collegamenti Transoceanici della Italo Radio (**Short Wave Transmitters**, for Transoceanic Communication, of the Italo Radio Company).—V. Gori, p. 343.
- Hörbarkeitsgrenzen und Günstigste Verkehrszeiten bei Kurzwellen auf den einzelnen Übersetzen (Limits of Audibility and Most Favourable Traffic Times for **Short Waves** over various Trans-oceanic Routes).—E. Quack and H. Mogel, p. 165.
- Tabelle der Wichtigsten Kurzwelle Sender (Table of the Most Important **Short Wave Stations**).—p. 223.
- New **Short Wave** Stations in U.S.A., p. 536.
- Der Kurzwelle Sender "AFK" in Döberitz (The **Short Wave Station** "AFK" at Döberitz), p. 282.
- World-wide Telephony : Successful **Short-wave Service** between Holland and Java.—A. de Haas, p. 343.
- Der Deutsche Kurzwelle-Rundfunksender (The German **Short Wave Broadcasts** Transmitter).—A. Semm, p. 644.
- Single Wavelength Working** : prevention of Interference. (German Patent 462,905, Lorenz), p. 50.
- Radio Signal Transmissions of **Standard Frequency**, March to July, p. 400.
- Modern Practice in High-frequency **Radio-telephony**.—R. A. Hull, p. 343.
- Wireless **Telephony** Developments, p. 586.
- Über Probleme beim Bau mittlerer und kleiner Sendestellen (Problems connected with the Construction of medium and small **Transmitters**).—v. Behringer and Graf, p. 165.
- Wireless Reigns in **Turkestan**.—L. Strong, p. 644.
- Some Remarks on **Ultra Short Wave Broadcasting**.—B. van der Pol, p. 113.
- Tableau de Contrôle des Longueurs d'Onde (**Wavelength Control Chart**), p. 463.
- Die neuen Wellenlängen (The New **Wavelengths**), p. 343.
- Who's Who** in the Ether.—J. G. Abrahams, p. 166.
- Who's Who** in the Ether : A Guide to Distant Reception, Comprising a List of European Broadcasting Stations with their Wavelengths, Call-Signs, and Identification Signals, p. 223.
- Weltwurfunkverein (World Broadcasting Union), p. 343.
- Radio Stations of the World on Frequencies above 1,500 Kilocycles, p. 112.
- Die Funkstellen der Welt ; ein neues Verzeichnis der Funkstellen (The Wireless Stations of the **World** ; a new List), p. 282.
- Der Weltfernprecherverkehr (The **World's Telephone Service**).—P. Craemer, p. 523.
- ### GENERAL PHYSICAL ARTICLES.
- Analyse von Absorptionskurven für allseitige Inzidenz inhomogener Strahlung bei ebenen Grenzflächen (Analysis of **Absorption Curves** for Incidence from every direction of inhomogeneous Radiation at Plane Surfaces of Separation).—H. Hellmann, p. 537.
- Bemerkung zum harmonischen Analyse (A Note on Harmonic Analysis).—G. Duffing, p. 225.
- Extinction of an A.C. Arc.—J. Slepian, p. 464.
- The Electric Arc in Gases at Low Pressures.—F. H. Newman, p. 464.
- Spectral Excitation by Recombination in the Electric Arc.—J. M. Dewey, p. 344.
- The Average Life Period of an Atom.—J. H. J. Poole, p. 166.
- Recent Theories of the Atom.—W. F. G. Swann, p. 345.
- Quantum Theory of Atom Disruption.—G. Gauow, p. 400.
- Atomic Magnetism**.—K. Honda, p. 167.
- Sur les Moments Atomiques (**Atomic Moments**).—P. Weiss and G. Foex, p. 114.
- The Structure of **Atomic Nuclei**, p. 401.
- Artificial Disintegration of Atoms and their Packing Fractions.—H. Pettersson, p. 645.
- Neues zum Barkhausen-Effekt (New Information on the **Barkhausen Effect**).—A. Pfaffenberger, p. 346.
- Enkele Metingen over het Barkhauseneffect (Some Measurements on the **Barkhausen Effect**).—G. J. Sizoo, p. 401.
- Report on the Work of the Bartol Research Foundation, 1928.—W. F. G. Swann, p. 536.
- Refraction of **Beams of Molecules**.—I. I. Rabi, p. 224.
- Über eine neue Art sehr schneller Beta-Strahlen (A New Kind of **Beta-Radiation**).—D. Skobelzyn, p. 524.
- Les Pellicules sphériques électriques et les Orbites privilégiées de Bohr-Sommerfeld (The charged spherical particles and the **Bohr-Sommerfeld** "preferential orbits").—L. Décorbe, p. 402.
- Diffraktion of **Cathode Rays** by Calcite.—S. Nishikawa and S. Kikuchi, p. 345.
- Diffraktion of **Cathode Rays**—III.—G. P. Thomson, p. 644.
- Über den Durchgang langsamer Kathodenstrahlen durch Metalle (On the Passage of Slow **Cathode Rays** through Metals).—A. Becker, p. 645.
- Propriétés Dielectriques et Structure des Colloïdes Hydrophiles (Dielectric Properties and Structure of the Hydrophilic **Colloids**).—N. Marinesco, p. 345.
- A New Conception of the Mechanism of Metallic Conduction.—H. M. Barlow, p. 646.
- Electric **Conductivity** and Optical Absorption of Metals.—E. H. Hall, p. 51.
- La Conductibilité Électrique (Electrical **Conductivity**).—W. J. de Haas, p. 349.
- The Electrical **Conductivity** of Metals.—R. Ruedy, p. 284.
- The Change of Electrical **Conductivity** in Strong Magnetic Fields (Two Parts).—P. Kapitza, p. 343.
- Cosmic Radiation** and Radioactive Disintegration.—L. R. Maxwell, p. 284.
- Cosmic Radiations and Evolution.—J. Joly, H. H. Dixon, p. 524.
- The Cosmic Rays, p. 51.
- Cosmic Rays, p. 344.
- Cosmic Rays. J. A. Gray, p. 345.
- Gamma and **Cosmic Rays**.—J. A. Gray and A. J. O'Leary, p. 588.
- Bemerkung zur Natur der Höhenstrahlung (A Note on the Nature of the **Cosmic Rays**).—A. K. Das, p. 524.
- Die Natur der Höhenstrahlung (The Nature of the "Cosmic Rays").—W. Bothe and W. Kohlhorster, p. 523.
- Das Wesen der Höhenstrahlung (The Nature of the **Cosmic Rays**).—W. Bothe and W. Kohlhorster, p. 587.
- Sur la Nature des Rayons ultrapénétrants—Rayons cosmiques (On the Nature of the Highly Penetrating Radiations—**Cosmic Rays**).—P. Auger and D. Skobelzyn, p. 524.
- The Possibility of Detecting Individual **Cosmic Rays**.—W. F. G. Swann, p. 344.
- La Cristallisation des Substances Mésonorphes dans le Champ Magnétique, Obtention d'un Solide à Molécules Orientées (Cristallisation of mesomorphic Substances in a Magnetic Field : the obtaining of a Solid with oriented Molecules).—G. Foex, p. 52.
- Resistance and Thermo-electric Phenomena in Metal Crystals.—P. W. Bridgman, p. 285.
- Über die senkrechte Ablenkung langsamer Elektronen an Gas-molekülen (The Deflection at Right Angles of Slow Electrons by Gas Molecules).—R. Kollath, p. 52.
- Über die Grenzdichte der Materie und der Energie (On the Limiting Density of Matter and Energy).—W. Anderson, p. 646.
- Influence of a Magnetic Field on the **Dielectric Constant**.—J. J. Weile, and Dielectric Anisotropy.—M. Jezewski, p. 401.
- Über die Dielektrizitätskonstanten einiger Metalldämpfe (On the Dielectric Constants of some Metal Vapours).—F. Kruger and F. Maske, p. 588.
- Theorie der Beugung von Electronen an Kristallen (Theory of the Diffraction of Electrons at Crystal Surfaces).—H. Bethe, p. 52.
- New Dimensional Equations for Electrical and Magnetic Quantities.—P. Kalantaroff, p. 588.
- Some Characteristics of the **Discharge** between Cold Electrodes in Vacuum.—A. W. Hull and E. E. Burger, p. 343.
- A Theory of the Electric **Discharge** through Gases.—P. M. Morse, p. 343.
- Die Rolle des Positiven Ions bei der selbstständigen Entladung in Luft (The Rôle of the Positive Ion in the Spontaneous **Discharge in Air**).—W. Müller, p. 344.
- The Corona **Discharge** in Neon.—F. M. Penning, p. 464.
- The Corona **Discharge** in Neon.—L. G. H. Huxley, p. 587.
- High-frequency **Discharges** in Gases.—J. S. Townsend and W. Nethercot, p. 464.
- High-frequency **Discharges** in Helium and Neon.—R. L. Hayman, p. 464.
- Electric Flashes Travel in Spirals, as shown by High-speed Camera, p. 233.
- Conduction of Electricity through Gases. Vol. I. : General Properties of Ions, Ionisation by Heat and Light.—J. J. and G. P. Thomson, p. 464.
- The Adsorption of Hydrogen on the Surface of an **Electrodeless Discharge Tube**.—M. C. Johnson, p. 402.
- The Fundamentals of **Electrodynamics**.—W. F. G. Swann, p. 401.
- Sur l'Électrodynamique : Théorie classique, Développement moderne (Electrodynamics : a Modern Development of the Classical Theory).—R. Ferrier, p. 646.
- On the Electromagnetic Field of an **Electron**.—The Electron as a Gravitational Phenomenon.—D. Meksyn, p. 401.
- Thermodynamical Properties of the **Electron**, and Atomic Theory.—R. D. Kleeman, p. 400.
- La Diffraction des Électrons par des Poudres Cristallines (Electron Diffraction by Crystalline Powders).—M. Ponte, p. 224.
- Über Elektronenbeugung in einem geritzten Gitter (Electron Diffraction at a Scratched Grid).—E. Rupp, p. 285.
- A Criticism of the **Electron Theory** of Metal.—H. M. Barlow, p. 464.
- The **Electronic Charge** e.—J. H. J. Poole, p. 344.
- Electron Waves and the Electron.—J. J. Thomson, p. 113.
- Les Vérifications récentes de la Mécanique ondulatoire dans le Cas des Électrons (Recent Verifications of Undulatory Mechanics in the Case of **Electrons**).—M. de Broglie, p. 645.
- The Scattering of Fast **Electrons** by Atomic Nuclei.—N. F. Mott, p. 587.
- On Free and Bound **Electrons** in Metals.—R. Ruedy, p. 284.
- Messung der Wärmeentwicklung bei der Kondensation von Elektronen in Metallen (Measurement of the Heat developed by the Condensation of **Electrons** in Metals).—R. Violi, p. 402.

- Heats of Condensation of Electrons on Platinum in ionised He, Ne, and Ar.—C. C. Van Voorhis and K. T. Compton, p. 401.
- Actions magnétiques longitudinales sur des Faisceaux d'Electrons lents (Concentrations et Dilatations périodiques)—(Longitudinal Magnetic Effects on Rays of Slow Electrons—periodic Concentrations and Dilatations).—J. Thibaud, p. 224.
- Longitudinal Magnetic Effect on Beams of Slow Electrons (Periodic Concentrations and Dilatations).—J. Thibaud, p. 645.
- Über die Möglichkeit eines experimentellen Nachweises der gegenseitigen Vernichtung von Elektronen und Protonen (On the Possibility of an Experimental Indication of the Mutual Destruction of Electrons and Protons).—C. Lönnqvist, p. 587.
- An Upper Limit for Energy-Density ; The Structure of Time.—G. I. Pokrowski, p. 225.
- An Upper Limit to Energy Density.—S. Suzuki, p. 283.
- Über mögliche Ursachen der Verwandlung von Energie in Materie (Possible Causes of the Transmutation of Energy into Matter).—G. I. Pokrowski, p. 587.
- Chart of the Electromagnetic Energy Relations.—W. E. Deming, p. 401.
- Second Contribution to the Study of the Light Ether.—V. Posejpal, p. 283.
- La Théorie électronique de l'Ether et l'Électromagnétisme (The Electronic Theory of the Ether and Electromagnetism).—A. Véronnet, p. 646.
- Crystal Structure and Ferromagnetism.—O. v. Auwers, p. 587.
- Die Rolle der Leitungselektronen beim Ferromagnetismus (The Rôle of the Conduction Electrons in Ferromagnetism).—J. Dorfman and R. Jaanus, p. 587.
- Einstein's Field-Theory.—A. S. Eddington, p. 283.
- United Field Theory of Electricity and Gravitation.—N. Wiener and M. S. Vallarta, p. 283.
- Sur la Théorie Synthétique des Champs (The Synthetic Field Theory).—A. Einstein, p. 401.
- Über die magnetische Auslöschung der Jodfluoreszenz (The Magnetic Quenching of Iodine Fluorescence).—O. Oldenberg, p. 644.
- The Practical Application of the Fourier Integral.—G. A. Campbell, p. 225.
- Frequency Change in Scattered Light.—F. A. Lindemann, T. C. Keeley and N. R. Hall, p. 167.
- A Molecular Theory of Friction.—G. A. Tomlinson, p. 646.
- Ein Gründliches Experiment über die Kontakttheorie der Triboelektrizität (A Fundamental Experiment on the Contact Theory of Frictional Electricity).—E. Perucca, p. 464.
- Studien über die Erzeugung von Reibungslektrizität (Studies on the Generation of Frictional Electricity).—L. Wolf, p. 464.
- Über die Erregung von Reibungslektrizität zwischen Metallen und Nichtleitern in Abhängigkeit vom Druck des ungebundenen Gases sowie von Entgasungszustände des Metalls (The Production of Frictional Electricity between Metals and Non-conductors, in dependence on Pressure of Surrounding Gas and on the Out-gassed State of the Metal).—W. Kluge, p. 463.
- Sur la Distribution Spatiale du Rayonnement Gamma du Radium dans les Milieux Dispersion Légers (On the Spatial Distribution of the Gamma Radiation of Radium in Light Dispersive Media).—M. Bruzau, p. 463.
- The Temperature Coefficient of Gamma-Ray Absorption.—L. Bastings, p. 463.
- A New Method for Investigating Gamma Rays.—W. Bothe and K. Kolhörster, p. 344.
- A Generalisation of Heaviside's Expansion Theorem.—W. O. Penneell, p. 646.
- Heaviside's Formula for Alternating Currents in Cylindrical Wires.—T. J. I'a. Bromwich, p. 225.
- The Absorption of High-frequency Radiation.—E. C. Stoner, p. 463.
- Production and Properties of High-frequency Radiation.—E. Rutherford, p. 167.
- Two Distinct Kinds of Molecule in Hydrogen.—G. Bonhoeffer, p. 644.
- Une Hypothèse sur la Nature de l'Hystérisis (A Hypothesis as to the Nature of Hysteresis).—A. Guillet, p. 401.
- On the Ionization of Hydrogen by its own Radiations.—J. Thomson, p. 588.
- De Verhouding van Ionisatie en Aanslag bij de Beweging van Electronen door Neon (The Relation between Ionisation and Excitation by Electrons moving in Neon Gas).—F. M. Penning and M. C. Teves, p. 587.
- The Ballistic Method of Ionisation Measurement with a Quadrant Electrometer.—D. L. Webster and R. M. Yeatman, p. 167.
- Zur Theorie der Ionisation in Kolumnen (On the Theory of Ionisation in Columns).—G. Jaffé, p. 402.
- Détermination du Rôle de la Lumière dans les Réactions chimiques thermiques (Determination of the part played by Light in Thermal Chemical Reactions).—J. Perrin, p. 285.
- Théorie de la Diffusion de la Lumière par un Corps placé dans un Champ Électrique ou Magnétique (Theory of the Diffusion of Light by a Body in an Electric or Magnetic Field).—Y. Rocard, p. 345.
- Wavelength Shifts in Scattered Light.—A. E. Ruark, p. 285.
- Zur Theorie des Lichtes (On the Theory of Light).—F. v. Wisniewski, p. 645.
- Modulation of Light Waves by High Frequency Oscillations.—A. Bramley, p. 114.
- Modulation of Light Waves.—A. Bramley, p. 463.
- Liquid Dielectrics under High Field Strengths and at High Temperature.—A. Nikuradse, p. 588.
- The Effect of Superimposed Magnetic Fields on Dielectric Losses and Electric Breakdown Strength.—A. Moukhous, p. 344.
- On the Magnetisation of Single Crystals of Iron at High Temperatures.—K. Honda, H. Masumoto and S. Kaya, p. 167.
- Evidence . . . as to the Ultimate Nature of Magnetism.—T. D. Yensen, p. 114.
- Les Théories Modernes du Magnétisme (Modern Theories of Magnetism).—L. Brüninghaus, p. 401.
- Über den gyromagnetischen Effekt und die magnetische Ablenkung von Atomstrahlen auf Grund der neuen Theorie des Magnetismus (The Gyromagnetic Effect and the Magnetic Deflection of Atomic Beams interpreted by the New—Honda's—Theory of Magnetism).—K. Honda, p. 645.
- The Magneto-Resistance Effect in Single Crystals of Nickel.—S. Kaya, p. 285.
- On the Magnetostriction of a Single Crystal of Nickel.—Y. Masiyama, p. 285.
- Über das Massenverhältnis von Proton und Elektron (On the Ratio of the Masses of Proton and Electron).—R. Firth, p. 645.
- Les Nouvelles Conceptions sur la Matière et le Rayonnement (The New Ideas of Matter and Radiation).—A. Boutaric, p. 645.
- Gewöhnliche Materie und strahlende Energie als Verschiedene "Phasen" eines und desselben Grundstoffes (Ordinary Matter and Radiant Energy as Different "Phases" of one and the same Fundamental Material).—W. Anderson, p. 285.
- How Michelson Supports Einstein, p. 285.
- The Structure of Molecules.—F. Hand, p. 225.
- Nuclear Disintegration.—Kirsch, Pettersson, Bothe and Franz, p. 166.
- The Nucleus as Radiator.—W. M. Hicks, p. 646.
- Two-dimensional Periodic Orbits in the Field of a Non-Neutral.—M. A. Higab, p. 644.
- Schwingende Kontinua mit willkürlichen verteilter, kleiner Dämpfung (Oscillating Continua with arbitrarily distributed small damping).—M. J. O. Strutt, p. 114.
- Neue Untersuchungen über die Durchdringende Hessche Strahlung (New investigations of the penetrating Hess radiation).—E. Steinke, p. 166.
- Weitere Messungen der durchdringenden Höhenstrahlen (Further Measurements of the Penetrating Radiation).—K. Wölcken, p. 283.
- The Nature of the Penetrating Radiation.—W. Kolhörster and W. Bothe, p. 344.
- Penetrating Radiation and de Broglie Waves.—F. T. Holmes, p. 523.
- The Absorption of Penetrating Radiation.—L. H. Gray, p. 224.
- Messungen über das Kurzwellige Ende der durchdringenden Hohenstrahlung (Measurements of the Short Wave End of the Spectrum of the Penetrating Radiation).—E. Regener, p. 463.
- On the Penetration of an Electric Field through Wire-gauze.—W. B. Morton, p. 52.
- Penetrating Radiations.—E. Rutherford, p. 344.
- Thunderstorms and the Penetrating Rays.—B. F. J. Schonland, p. 524.
- Proeven over Persisteerende Stroomen (Tests on Persistent Currents).—W. Tuyn, p. 587.
- The Phosphorescence of Fused Quartz.—A. C. Bailey and J. W. Woodrow, p. 284.
- Sur les Directions d'Émission des Photo électrons (The Direction of Emission of Photoelectrons).—P. Auger, p. 285.
- The Physics of the Universe.—J. Jeans, p. 51.
- Neue Wege in der Physik (Fresh Paths in Physics).—E. Schrödinger, p. 401.
- Apparent Evidence of Polarisation in a Beam of Beta-Rays.—R. T. Cox, C. G. McIlwraith and B. Kurrelmeyer, p. 284.
- Zur Polarisation des Kanalstrahlichtes in schwachen elektrischen Feldern (Polarisation of the Canal ray light in weak electric fields).—E. Rupp, p. 345.
- Die Polarisation des Elektronstrassleuchtens bei Edelgasen (The Polarisation of the Electron-impact Light in the Inert Gases).—K. Steiner, p. 401.
- La Polarisation dans la Théorie des Quanta de Lumière (Polarisation in the Theory of Light Quanta).—J. Ullmo, p. 345.
- Sur le Champ Interne de Polarisation (The Internal Field of Polarisation).—R. de Mallemaun, p. 345.
- An Attempt to Polarise Electron Waves by Reflection.—C. J. Davison and L. H. Germer, p. 284.
- Impossibility of Polarising Electronic Waves.—A. F. Joffé, A. N. Arsenieva, J. Frenkel, p. 284.
- Versuch über die Polarisationsfähigkeit eines Elektronenstrahls (Experiments on the Polarizability of an Electron Beam).—F. Wolf, p. 284.
- Positive Ion Currents in the Positive Column of the Glow-discharge in the Noble Gases.—W. Uytterhoeven, p. 224.
- On the Investigation of Predischarges.—Fr. Trey, p. 464.
- Evidence of the Presence of Protons in Metals.—A. Coehn, p. 51.

- Scattering of Quanta with Diminution of Frequency.—K. Darrow, p. 345.
- Über die Ursache, warum ein elektrisches Elementarquantum nicht in Teile von noch kleineren Ladungen zerfallen kann (The Reason why an elementary Quantum of Electricity cannot disintegrate into still smaller charges).—W. Anderson, p. 225.
- The Quantum Theory.—H. S. Allen, p. 401.
- The Electromagnetic Equations in the Quantum Theory.—C. G. Darwin, p. 223.
- Symposium on Quantum Mechanics, p. 401.
- The Problem of the Interaction of Radiation and the Electron.—R. D. Kleeman, p. 400.
- The Scattering of Radiation by Free Electrons on the New Relativistic Quantum Dynamics of Dirac.—O. Klein and Y. Nishina, p. 588.
- An Apparatus for the Measurement of Radiation Intensity over a wide Range of Wavelengths (0.02–3 Angstrom).—O. Glasser and V. B. Seitz, p. 167.
- Zur Theorie der Radiometers (On the Theory of the Radiometer).—P. S. Epstein, p. 646.
- Radiometer Effect of Positive Ions.—C. T. Knipp and W. S. Stein, p. 646.
- L'Effet Raman dans la Domaine des Rayons X (The Raman effect in the region of X-rays).—M. Ponte and Y. Ricard, p. 114.
- The Raman Effect with Liquid Oxygen, Nitrogen, and Hydrogen.—J. C. McLennan and J. H. McLeod, p. 285.
- Étude des Radiations Secondaires observées dans la Diffusion Moléculaire de la Lumière par les Fluides—Effet Raman (Study of the Secondary Radiations observed in the Molecular Diffusion of Light by Liquids—Raman Effect).—P. Dauz, p. 402.
- Über Wiedervereinigung positiver Ionen mit freien Elektronen (Recombination of Positive Ions with free Electrons).—R. d'E. Atkinson, p. 114.
- Recombination of Ions in the Chamber of an X-Ray Spectrometer.—D. L. Webster and R. M. Yeatman, p. 167.
- Mathematical Study of a Rectified Alternating Current.—G. Pouss, p. 225.
- The Understanding of Relativity, p. 167.
- The Understanding of Relativity, p. 167.
- The Understanding of Relativity, p. 224.
- The Relativity Theory of Divergent Waves.—O. R. Baldwin, p. 401.
- Über Widerstandänderung Verschiedener Metalle in Magnetfeldern (The Resistance-Change of Various Metals in Magnetic Fields).—F. Vilbig, p. 586.
- Angular Distribution of Intensity of Resonance Radiation.—R. W. Gurney, p. 285.
- Rotation of Molecules induced by Light.—C. V. Raman and K. S. Krishnan, p. 167.
- Eine Bemerkung zur Arbeit von E. Rupp (A Comment on the Work of E. Rupp).—S. J. Wawilow, p. 114.
- Schrödinger Dynamics.—A. Bramley, p. 225.
- Zur Physikalischen Kritik von Schrödingers Theorie der Lichtemission (The Physical Criticism of Schrödinger's Theory of the Emission of Light).—Parts I, II and III.—J. Stark, p. 646.
- Über die Auslösung von Sekundärelektronen durch Elektronen von 1–30 Kilovolt (The Setting Free of Secondary Electrons by Electrons of 1–30 kv).—E. Buchmann, p. 345.
- Les Radiations Secondaires dans la Lumière diffusée par le Quartz (Secondary Radiations in the Light diffused by Quartz).—J. Cabannes, p. 285.
- Thermoelectric Power of Selenium Crystals.—R. M. Holmes and A. B. Rooney, p. 346.
- Measurement of the Charge of Positive Ions by the Shot Effect.—N. H. Williams and W. S. Huxford, p. 402.
- Skin Effect in Rectangular Conductors at High Frequencies.—J. D. Cockcroft, p. 224.
- Die Abweichungen von Ohmschen Gesetzen bei hohen Stromdichten im Lichte der Sommerfeldschen Elektronentheorie (Deviations from Ohm's Law at High Current Densities, in the Light of Sommerfeld's Electronic Theory).—H. Margenau, p. 645.
- The Mechanism of Spark Discharge.—L. J. Neuman, p. 402.
- The Time Lag of the Spark Gap.—J. W. Beams, p. 344.
- Funkkonstante und Lufttemperatur (Sparking Constant and Air Temperature).—M. Toepler, p. 587.
- Sparking Constant in Air.—M. Toepler: K. May, p. 587.
- Antangspannung und Gasdichte bei verschiedenen Elektrodenformen (Sparking Voltage and Gas Density for Electrodes of various Shapes).—S. Franck, p. 283.
- Die Funkenspannung der Luft bei kleinem Raumquerschnitt (Sparking Voltage of Air for Small Cross Section of Gap).—A. Gremant, p. 463.
- Zur Elektrodynamik des rotierenden Elektrons (On the Electrodynamics of the Spinning Electron).—I. Tamm, p. 645.
- A Property of Superconducting Metals.—J. H. Bartlett, p. 587.
- Experiments on Supraconductors.—W. J. de Haas, p. 51.
- Über die Synthese von Elementen (The Synthesis of Elements).—G. J. Pokrowski, p. 523.
- A Thermal Property of Matter.—Q. Majorana, p. 284.
- Bemerkungen zum Versuch Thomson's (Remarks on G. P. Thomson's Research).—S. C. Kar, p. 644.
- On Time-Lags in Fluorescence and in the Kerr and Faraday Effects.—E. Gaviola, p. 586.
- The Universe and Irreversibility, p. 166.
- Measurements of the Velocity of Sound in Air, Nitrogen and Oxygen, with special reference to the Temperature Coefficients of the Molecular Heats.—W. G. Shilling and J. R. Partington, p. 166.
- Über den Begriff der Geschwindigkeit in der Diracschen Theorie des Elektrons (On the Conception of Velocity in the Dirac Theory of the Electron).—V. Fock, p. 645.
- Wave Atoms.—P. R. Heyl, p. 345.
- The Physical Interpretation of Wave Mechanics.—G. Temple, p. 401.
- The Wave Theory of the Electron.—J. M. Whittaker, p. 402.
- On the Waves associated with β -rays, and the Relation between Free Electrons and their Waves.—G. P. Thomson, p. 463.
- X-Radiation from Gases.—A. Björkeson, p. 167.
- A New High Potential X-Ray Tube.—C. C. Lauritsen and R. D. Bennett, p. 283.
- Measurements on the Absolute Intensity of X-Rays.—T. E. Aurén, p. 283.
- Some Remarks concerning the Production and Absorption of Soft X-Rays and Secondary Electrons.—E. Rudberg, p. 52.
- The Scattering of X-Rays from Gases.—C. S. Barrett, p. 167.
- Note on the Zeeman Effect.—W. H. Watson, p. 644.

MISCELLANEOUS.

- The Electric Polarisation in Insulators produced by Acceleration.—E. Brody, p. 649.
- An Accelerometer utilising Piezo-Electricity.—K. Yamaguchi, p. 649.
- Some Adsorption Isotherms for a Plane Platinum Surface.—W. G. Palmer, p. 404.
- Speaking to Earth from an Aeroplane, p. 286.
- Fog Landing for Aeroplanes, p. 525.
- Height of Aeroplane Above Ground by Radio Echo.—E. F. W. Alexanderson, p. 286.
- Wireless at the Aero Show, p. 590.
- Quelques Statistiques sur la Mortalité et l'âge d'élection des Membres de l'Académie (Some Statistics on the Age at Death and Age at Election of the Members of the French Academy).—C. Richet, p. 287.
- Aircraft Compass Problems.—T. R. Rhea, p. 347.
- Latitude Determination in Aircraft.—J. Jaumotte, E. Lehay and J. F. Cox, p. 465.
- Alarm Altimeter, p. 168.
- Radio Altitude Gauge, p. 168.
- Analyser for Research on Acoustic Altitude Measurement for Aircraft.—L. P. Delsasso, p. 650.
- The Amateur and the Naval Reserve.—R. H. G. Mathews, p. 590.
- Über Gleichstromverstärkung (The Amplification of Direct Current).—E. Rasmussen, p. 647.
- Substratum Communication among White Ants.—A. E. Emerson and R. C. Simpson, p. 589.
- Selected Radio-telephone Apparatus : Recent Developments and Improvements, p. 648.
- Hot Cathode Neon Arcs.—C. G. Found and J. D. Forney, p. 346.
- Conference of Australian Physicists at Canberra, p. 52.
- Experiments on the Amplification and Detection of Bio-electric Currents by Means of Thermionic Valves.—E. Benedetti, p. 406.
- Beitrag zur Kenntnis der Vorgänge beim Stromdurchgang durch den menschlichen Körper (Contribution to our Knowledge of the Processes involved in the Passage of Current through the Human Body), p. 525.
- Broadcasting Over the Supply Mains—Development in the U.S.A., p. 116.
- Broadcasting by Wired Wireless : The Underlying Principles of the System fully explained : Methods of distributing Signals to Subscribers' Lines.—O. F. B., p. 53.
- Burglar Alarm, etc., Depending on the Variation of an Oscillating Circuit, p. 169.
- Plan einer Fernsprechkabelverbindung zwischen Europa und Amerika (Plan for a Telephonic Cable Link between Europe and America).—K. W. Wagner, p. 647.
- Single Side-band Carrier for Inter-station Communication.—R. Wilkins and F. I. Lawson, p. 227.
- Carrier Telephone System for Short Toll Circuits.—H. S. Black, M. L. Almquist, and L. M. Ilgenfritz, p. 404.
- A Decimal Classification of Radio Subjects : An Extension of the Dewey System, p. 115.
- Remise à l'Heure des Horloges et Commandes à Distances Diverses par les Lignes téléphoniques (Clock-setting and Various Distance-controls by Telephone Lines).—J. Lavet, p. 650.
- Clock Setting by Wireless Automatic Synchronisation from Time Signals, p. 650.
- Recording Colorimeter, p. 287.
- A Recording Photoelectric Colour Analyser.—A. C. Hardy, p. 346.
- The Transmission of High-frequency Currents for Communication over Existing Power Networks.—C. A. Boddie and R. C. Curtis, p. 404.
- The Washington International Radiotelegraphic Conference of 1927.—J. A. Sree, p. 115.

- Ferntagungen (Conferences at a Distance).—P. Kasperek and R. Feldkeller, p. 648.
- Very High Vacuum Contact-Breaker, p. 347.
- Contact Effects between Electrodes and Dielectrics.—B. G. Churcher, C. Daninatt and J. W. Dagleish, p. 287.
- Untersuchungen an Detektorkontakteen (Investigations into Contact Detectors).—F. W. Kallmeyer, p. 588.
- Regelwidrigkeiten in der Wirkungsweise einiger Kontaktdetektoren (Anomalous Behaviour of Certain Contact Detectors).—R. H. Elsner, p. 347.
- Influence of Temperature on Luminous Carborundum Contact : On the Application of the Quantum Theory to the Phenomenon of Luminescence of a Crystal Detector.—O. V. Lossev, p. 588.
- Effet du Champ magnétique sur la Résistance Électrique d'un Contact (Effect of a Magnetic Field on the Electrical Resistance of a Contact).—J. Cavrel, p. 227.
- Über Kontaktwiderstände (Contact Resistances).—R. Holm, p. 227.
- Metallische Contact Resistances : Characteristics of Contact Resistances.—E. and R. Holm, p. 588.
- Sur l'Étude des Contacts Imparfaits en Courants Continus (The Study of Imperfect Contacts with Continuous Currents).—R. Audubert and M. Quintin, p. 226.
- Sur la Rectification par les Mauvais Contacts purement Métalliques (Rectification by Purely Metallic Imperfect Contacts).—H. Pélalon, p. 226.
- Sur le Mécanisme de la Conductibilité dissymétrique des Contacts impartiaux (The Mechanism of Unsymmetrical Conductivity in Imperfect Contacts).—R. Audubert and M. Quintin, p. 226.
- Sur la Théorie Électronique des Mauvais Contacts (On the Electronic Theory of Imperfect Contacts).—H. Pélalon, p. 402.
- Application de la Théorie Électronique aux Mauvais Contacts (Application of the Electronic Theory to Imperfect Contacts).—H. Pélalon, p. 525.
- Continental Drift.—A. Holmes, p. 53.
- Contractions for Titles of Periodicals.—R. L. Sheppard, p. 115.
- Co-operation in Science and Industry.—J. F. Thotpe, and, Final Report of the Committee on Industry and Trade, p. 406.
- Radio Coordination.—M. D. Hooven, p. 648.
- Corona Ellipses.—V. Karapetoff, p. 405.
- Coronaphone Testing Instrument for Detection of incipient Trouble in a Transformer, p. 287.
- Crystal Classification by Piezoelectric Test.—W. Schneider, p. 403.
- A Suggested Explanation of the Crystal Defector : Rectification Phenomena may be traced to Piezo-electric Action.—F. Regler, p. 53.
- The Effect of Ultra-Violet and X-Rays on the Steady Current Characteristics of Crystal Detectors.—W. Jackson, p. 403.
- Le Sens du Courant redressé par un DéTECTeur à Cristal (The Direction of the Current rectified by a Crystal Detector).—G. G. Reisshaus, p. 403.
- Weitere Mitteilungen zum Kristalldetektorproblem (Further Information on the Subject of the Crystal Detector).—P. Beck, p. 226.
- Neuere Untersuchungen zum Detektor-Problem (New Investigations into the Crystal Detector Problem).—R. H. Elsner, p. 588.
- A Method of Determining the Axial Ratio of a Crystal from X-Ray Diffraction Data.—M. L. Fuller; W. P. Davey, p. 647.
- Umkehr des gleichgerichteten Detektorstromes bei sehr hohen Frequenzen (Reversal of the Rectified Crystal Detector Current at Very High Frequencies).—H. E. Hollmann, p. 647.
- Über die elektrische Leitfähigkeit von natürlichen und künstlichen NaCl-Kristallen (The Electrical Conductivity of Natural and Artificial NaCl Crystals).—A. D. Goldhammer, p. 647.
- Silver Sulfide Crystals as Rectifiers (Silver-wire Contact).—A. Hettick, p. 287.
- Luminous Carborundum Detector and Detection Effect and Oscillations with Crystals.—O. V. Lossev, p. 53.
- Crystals, see also Contacts, Rectification, Detector.
- Heating, Volatilisation and Atomisation by Heavy Electric Currents, p. 52.
- The "Deion" Circuit Breaker, p. 347.
- Theory of the Deion Circuit Breaker.—J. S. Slepian and others, p. 650.
- Der Kupferjodürdetektor (The Copper Iodide Detector).—E. Habani, p. 403.
- The De Vry Cinetone, p. 648.
- Anomalous Conduction as a Cause of Dielectric Absorption.—J. B. Whitehead and R. H. Marvin, p. 405.
- Joffé's Untersuchungen über die elektrische Durchschlagsfestigkeit (Joffé's Investigations into Dielectric Strength).—A. Smekal. Entgegung (Reply).—A. Joffé, p. 287.
- Untersuchungen über die Elektrizitätsleitung durch sehr dünne Schichten fester Dielektrika (Investigation of the Conduction of Electricity through very thin Layers of Solid Dielectrics).—U. Espermüller, p. 116.
- Power Factor and Dielectric Constant in Viscous Dielectrics.—D. W. Kitchen, p. 405.
- Luminous Discharge in Gases at Low Pressure.—H. Pettersson, p. 404.
- Luminous Discharge in Gases at Low Pressures.—H. Pettersson, p. 524.
- The Measurement of Small Displacements by Photoelectric or Thermoelectric Means.—G. D. Cristescu, p. 649.
- Sounding and Distance-Measurement by very short Wave-trains, p. 649.
- High-tension Measurements and their Transmission to a Distance.—A. Palm, p. 404.
- Distance Transmission of Instrument Readings.—C. H. Linder and others, p. 590.
- La Transmission électrique à Distance des Indications de Mesures, et la Système à Induction Täuber-Gretler (Distance Transmission of Meter-readings, and the Täuber-Gretler System).—A. Imhof, p. 590.
- Method and Apparatus for the Measurement of Distances by the Use of Electromagnetic Waves, p. 168.
- Die Fernlenkversuche der Reichsmarine in den Jahren 1916-1918 (Distant Control Experiments in the German Navy, 1916-1918).—H. W. Birnbaum, p. 115.
- Systems of Selective Distant Control.—Y. Shimazu, p. 404.
- Note sur l'Élimination des Perturbations causées par les Lignes exploitées au moyen de l'Appareil Baudot (Note on the Elimination of the Disturbances caused by Lines using the Baudot System).—E. Boyer, p. 228.
- Rundfunkstörungen durch Überlagerungsgeräte (Disturbance of Broadcast Reception by Heterodyne Apparatus).—F. Vilbig, p. 649.
- Earths, see Grounds.
- Recent Developments in Educational Broadcasting.—H. L. Fletcher, p. 525.
- Über die Beeinflussung des menschlichen Organismus beim Arbeiten am Kurzwellensender (The Effect on the Human Organism of Work with Short Wave Transmitters).—K. Heinrich, p. 588.
- Characteristic Frequencies in Water : Effect of Electromagnetic Radiation on Animal Tissues.—W. F. G. Swann; McDonald, p. 589.
- Some of the Psychological Effects of Radiant Energy.—H. Laurens, p. 589.
- Über die biologische Wirkung kurzer elektrischer Wellen (The Biological Effects of Short Electric Waves).—E. Schliephake, p. 347.
- Explication des Effets Thérapeutiques des Circuits Oscillants Ouverts sur l'Organisme des êtres Vivants (Explanation of the Therapeutic Effects of Open Oscillating Circuits on the Organism of Living Creatures).—G. Lakhovsky, p. 286.
- Biological Effects of Ultra-Short Waves : Dielectric Loss in Electrolyte Solutions in High Frequency Fields.—W. T. Richards and A. L. Loomis, p. 588.
- Rückblick auf die wichtigsten Arbeiten auf dem Gebiete der Elektrotechnik im Jahre 1928 (A Survey of the Most Important Developments in Electrical Engineering in 1928), p. 406.
- Apparatus for the Generation of Electricity.—M. E. I. M. Rolot, p. 169.
- How Electricity Does Things.—L. B. Atkinson, p. 646.
- Electrolyse de l'Eau en Courant alternatif (Electrolysis of Water by Alternating Current).—A. Canaud, p. 649.
- Le Grand Electro-aimant de l'Académie des Sciences (The Great Electro-magnet of the Academy of Sciences).—A. Cotton and G. Mabboux, p. 405.
- An Attempt to Add an Electron to the Nucleus of an Atom.—W. D. Harkins and W. B. Kay, p. 228.
- The Measurement of Emotions.—G. G. Blake, p. 347.
- L'Énergie Thermique de l'Eau des Régions Polaires (The Thermal Energy of the Water of the Polar Regions).—H. Barjot, p. 228.
- Sur l'Utilisation de l'Énergie Thermique des Mers (The Utilisation of the Thermal Energy of the Seas).—G. Claude, p. 525.
- Utilisation des Sources d'Énergie naturelle (Utilisation of Sources of Natural Energy).—P. Drosine, p. 525.
- The Generation of Electric Power from Energy in Unfrozen Water under Surface Ice.—H. Barjot, p. 650.
- On the Efficient Utilisation of Solar Energy.—R. H. Goddard, p. 650.
- Le Ve^e Salon Annuel de la T.S.F. (The 5th Annual Wireless Exhibition), p. 169.
- The Physical Society's Exhibition : Matters of Wireless and Laboratory Interest, p. 226.
- Physical and Optical Societies' Exhibition : Description of the Exhibits, p. 286.
- Exhibitions, Shows, etc., see also under Reception.
- Procédé d'Exploration Électrique du Sol au Moyen de Courants Alternatifs à Fréquence extrêmement Basse (Process of Electrical Exploration of the Soil by means of a.c. of extremely low Frequency).—Ambroux, p. 649.
- General Ferrié, p. 465.
- Die Messung des elektrischen Feldes des Menschen (The Measurement of the Electric Field of Human Beings).—O. Utesch, p. 464.
- The Relation between the Electric and Magnetic Fields of a Wireless Wave.—F. C. Curtis, p. 590.
- Neue Starklichtlampen mit Wolfram-Einkristall (New High Candle-power Lamps with Single-crystal Tungsten Filaments).—Salmony, p. 169.
- Die Kettendeleiter in der Unterlagerungstelegraphie (Filter Chains in Telegraphy imposed on Telephone Lines).—Ch. Wisspeintner, p. 53.

- The Detection of Flaws in Rails, using Valve Amplifiers.—E. A. Sperry, p. 406.
- Frictional Electricity.—W. Kluge, L. Wolf, p. 649.
- Geophysical Exploration, p. 53.
- Geophysical Prospecting.—A. S. Eve and D. A. Keys, p. 53.
- Geophysical Prospecting : (1) Theoretical Considerations, for Methods using Two Point-shaped Electrodes : by J. N. Hummel; (2) Application of Electric Methods in Practical Geophysics : by E. Pautsch; (3) Modern Instruments and Methods of Seismic Prospecting : by C. A. Heiland, p. 465.
- Applied Geophysics in the Search for Minerals.—A. S. Eve and D. A. Keys, p. 649.
- Geophysical Prospecting, see also Prospecting, Divining, Ore, Oil, Exploration.
- Die Physikertagung im Rahmen der Versammlung Deutscher Naturforscher und Ärzte in Hamburg 1928 (Conference of Physicists at the German Association for Science and Medicine, Hamburg, 1928), p. 115.
- Action exerted by an Oscillating Metallic Circuit on the Germination of Seeds.—G. Mezzadri and E. Varetton, p. 465.
- Increase in Conductivity of Glass under Electron Bombardment.—W. R. Ham, M. H. White and H. R. Kiehl, p. 169.
- Impulse Characteristics of Driven Grounds.—H. M. Towne, p. 228.
- Über Herztones und Herzgeräusche (Heart Tones and Sounds).—K. Posener and F. Trendelenburg, p. 236.
- Humours of the Market Survey: Ourselves as Others See Us: Foreign Impressions of the British Wireless Position, p. 226.
- Iceberg Detection.—H. T. Barnes, p. 650.
- On the General Characteristics of Induction.—K. Kanava, p. 116.
- Abhängigkeit des Widerstandes isolierender und anderer Stoffe von der Spannung und Frequenz und ihre Folgeerscheinungen: experimenteller Nachweis von Raumladungen (The Dependence of the Resistance of Insulating and other Materials on the Voltage and Frequency, and its Results: Experimental Proof of the Existence of Space Charges).—P. Böning, p. 406.
- Sur l'Existence d'un État conducteur des Liquides Diélectriques (On the Existence of a Conducting State in So-called Insulating Liquids).—L. Brüningshaus, p. 526.
- Insulation : The Opportunity for Research.—J. B. Whitehead, p. 225.
- Radio Interference.—J. G. Allen, p. 466.
- Man-made Static. High-voltage Overhead Electrical Transmission Lines and Radio Interference.—R. L. Smith-Rose, p. 403.
- Prevention of Interference between Power and Communication Lines: Progress in Germany in 1928.—W. Wagner, p. 404.
- Über die Störwirkung von Wandervellen und die gegenseitige Beeinflussung von Telegrafenleitungen (The Interference Effects of Surges and the Interaction of Telegraph Lines).—K. Ohashi, p. 404.
- Die Fernsprechstörwirkung von Gleichtricherbahnen (Interference with Telephony caused by Railways, etc. using Rectified Currents).—L. Röchmann, p. 590.
- Bekämpfung der Radiogeräusche bei Aluminiumschleifbügeln von Strassenbahnen (The Prevention of Radio Interference from Aluminium Current Collectors on Tramways).—R. Wichmann, p. 590.
- Messung der Fernsprechstörwirkung von Starkstromlagen (Measurement of Power Station Interference with Telephonic Communication).—L. Röchmann, p. 404.
- Störungen von Rundfunkempfang durch Quecksilberdampf-Gleichrichter (Interference) with Broadcast Reception due to Mercury-vapour Rectifiers).—K. Heinrich, p. 227.
- Beseitigung der durch Hochfrequenzgeräte hervorgerufenen Störungen des Rundfunkempfangs (Prevention of Interference with Broadcast Reception due to H.F. Medical Apparatus), p. 286.
- The Radio Engineer's Responsibility in Coping with Man-Made Interference.—E. H. Felix, p. 648.
- Mineralquellen als Ursache von Rundfunkstörungen (Mineral Springs as Cause of Interference with the Reception of Broadcasting), p. 649.
- Interference, see also Noise, Disturbance, Induction, and under Reception.
- Sudden Upward Bend of Current-Voltage Curve of Strongly Ionised Gas at Atmospheric Pressure.—R. Thaller, p. 589.
- Italienischer Nationalrat für funktechnische Forschungen (The Italian National Council for Radio Research), p. 647.
- Theoretisches und Experimentelles zum Johnson-Rahbek-Effekt (Theoretical and Experimental Investigation of the Johnson-Rahbek Effect).—P. Böning, p. 403.
- Kinematographie auf ruhenden Film und mit extrem hoher Bildfrequenz (Kinematography on Stationary Film with Extremely High Picture-frequency).—C. Cranz and H. Schardin, p. 648.
- Resonant Control for Multiple Street Lamps.—W. W. Edson, p. 227.
- Method for Discovering Leaks in Glass Vacuum Apparatus.—P. Sélényi, p. 52.
- Wireless at the Leipzig Fair, 1929, p. 646.
- Note préliminaire concernant Mesures de Longeur par Ondes stationnaires électromagnétiques (Preliminary Note on the Measurement of Lengths by Stationary Electromagnetic Waves).—H. S. Jelstrup, p. 589.
- Lichtenberg Figures.—C. E. Magnusson, p. 227.
- Automatische Steuerung von Aufzügen mit Hilfe von Elektronenröhren (Automatic Control of Lifts by the use of Thermionic Valves), p. 650.
- Nouveau Système de Téléphonie Optique par la Lumière Visible ou Ultraviolette (New System of Optical Telephony by Visible or Ultraviolet Light).—Q. Majorana, p. 115.
- Actions des Rayons Lumineux sur le Chlorure de Potassium (Action of Light Rays on Chloride of Potassium).—J. Risler and F. de Courmelles, p. 228.
- Effect of Light on the Eye recorded by Valve Methods.—E. L. Chaffee, p. 465.
- Das Tontelegraphie-System der C. Lorenz Aktiengesellschaft (The Lorenz Note-Telegraphy System).—W. Scheppmann and A. Eulenhofer, p. 590.
- Magnetic Analysis.—R. L. Sandford, p. 406.
- Sur le Sondage magnétique des Arbres de Machines (Magnetic Sounding of Machine Shafts).—J. Peltier, p. 347.
- Electromagnetic Testing for Mechanical Flaws in Steel Wire Ropes.—T. F. Wall, p. 650.
- Sur la Résolution Complète du Problème de la Carte dans l'Espace (The Complete Solution of the Problem of Space Mapping).—H. Roussilhe, p. 116.
- The Excitation of Luminescence by the Agitation of Mercury in Glass and Transparent Fused Silica Tubes and Vessels.—W. L. Lemcke, p. 246.
- A Machine to Demonstrate the Process of Modulating a Carrier Wave.—A. C. Timmis, p. 649.
- Ein neues System für Wechselstromnachrichtentelegraphie (A new System for Multiplex A.C. Telegraphy).—M. Wald, p. 53.
- Natural Ionising Radiation and Rate of Mutation.—E. B. Babcock and J. L. Collins, p. 589.
- Does Natural Ionizing Radiation Control Rate of Mutation?—E. B. Babcock and J. L. Collins, p. 650.
- Mutual Induction between Conductors of Finite Length Conveying Alternating Currents.—F. Pollaczek, p. 590.
- La T.S.F. et la Stratégie Navale Britannique (Wireless and British Naval Strategy).—Commandant X., p. 168.
- Electrical Aids to Navigation.—R. H. Marriott, p. 347.
- Alcune Esperienze colla Lamppada a Neon (Some Experiments with the Neon Lamp).—V. Rouschi, p. 589.
- A Filter for Street Car Noises, p. 226.
- A Noise Tester, p. 285.
- Formules Relatives à l'Etude des Bruits d'Induction sur une Ligne de Télécommunication influencée par une Ligne de Transmission d'Energie (Formulas regarding Induction Noises in a Communication Line induced by a Power Line).—J. E. Poncy, p. 404.
- Study of Noises in Electrical Apparatus.—T. Spooner and J. P. Foitz, p. 650.
- Physics in Relation to Oil Finding (Part I).—A. O. Rankine, p. 465.
- Electric Ore and Oil Divining, p. 53.
- Ein elektromechanischer Schwingungsgeber (Oscillation motor)—An electromechanical Oscillation Generator—Oscillating Motor).—W. Spath, p. 347.
- Use of the Oscillograph for Measuring Non-Electrical Quantities.—D. F. Miner and W. B. Batten, p. 346.
- Die Bedeutung der drahtlosen Telegraphie für die Anstrichtechnik (The Significance of Wireless Telegraphy in the Paint Industry).—P. Nettmann, p. 589.
- The Effect of Moist Air on the Resistance of Pencil Lines.—J. B. Seth, C. Anand and G. Chand, p. 228.
- Photoelectric Cell as Protection for Electrical Apparatus, p. 466.
- Une Application des Cellules photoélectriques à un Dispositif enregistreur de Trafic urbain (An Application of Photoelectric Cells to the Recording of Urban Traffic), p. 465.
- Photoelectric Control with Mirror Reading Instruments.—K. Lark-Horovitz and G. W. Sherman, p. 286.
- Some Photoelectric and Glow-Discharge Devices and Their Applications to Industry.—J. V. Breisky and E. O. Erickson, p. 346.
- Photometry of Therapeutic Lamps.—D. T. Harris, p. 287.
- Sur un Procédé de Photométrie photoélectrique avec Source de Rayonnement variable (A Photoelectric Photometry Process for Variable Sources of Radiation).—T. D. Gheorghiu, p. 649.
- The Progress of Technical Physics in Central Europe, p. 590.
- The Rôle of Physics in Modern Industry.—I., O. Grondahl, p. 646.
- Zwanzig Jahre Arbeit am Physikalischen Weltbild (20 years' work in Physics).—M. Planck, p. 646.
- Piezoelectric Generation of Mechanical Oscillations, p. 116.
- Co-existence of Power Lines and Communication Lines.—L. Selmo, E. Brylinski, p. 116.
- Beitrag zur Allgemeinen Theorie der Elektrostatischen und Elektromagnetischen Kopplung Zwischen Starkstrom-Hochspannungs- und Fernmeldeteilungen im Stationären Zustand (Contribution to the general theory of e.s. and e.m. coupling between power H.T.-lines and telephone-lines, in the stationary condition).—G. Egeling, p. 227.
- Enregistrement Oscillographique des Variations Instantanées de la Pression dans les Canalisations d'Eau. Méthode du Quartz piézoélectrique (Oscillographic Registration of Instantaneous Pressure Variations in Water Systems. Piezo-electric Quartz Method).—R. Hocart, p. 286.

- Quelques Statistiques réductibles et non réductibles à la Loi de Probabilité simple (Some Statistics reducible and irreducible to the Law of Simple Probability).—R. de M. de Ballore, p. 466.
- La Propriété Scientifique (Scientific "Property").—Fernand-Jacq, p. 465.
- Electrical Prospecting.—J. J. Jakosky, p. 52.
- Protection of Electrical Apparatus against internal Short Circuit, p. 228.
- Electrical Methods of Prospecting.—F. Vercelli, p. 649.
- Public Address Relays, p. 648.
- The Deterioration of Quartz Mercury Vapour Lamps and the Luminescence of Transparent Fused Quartz.—A. E. Gillam and R. A. Morton, p. 227.
- Radiometer for Light from Planets and Stars.—C. G. Abbot, p. 405.
- Die Bedeutung der drahtlosen Telegraphie für die Wissenschaft (The Importance of Radio Telegraphy in Science).—J. Zenneck, p. 406.
- Ray of Death—and Life, p. 169.
- Vital Rays, p. 524.
- Aufzeichnung schneller Schwingungen (The Recording of Rapid Vibrations).—H. Thoma, p. 648.
- The Theory of Electrical Rectification.—R. de L. Kronig, p. 403.
- The Geometry of Resonance Diagrams.—J. K. Catterson-Smith, p. 227.
- Radio-Telegraphy and Radio-Telephony: a Review of Progress.—E. B. Moulin, p. 169.
- On the Writing of Scientific Papers.—F. M. Colebrook, p. 466.
- On the Writing of Scientific Papers.—W. H. Merriman, p. 525.
- Secrecy in Radio Telephony, p. 52.
- Les radiotélégrammes "Seismo" (Radio-telegrams prefixed "Seismo").—E. Rothe, p. 647.
- The Circulation of Seismological Information by Wireless Telegraphy, p. 228.
- Selenium Cell Developments, p. 346.
- Die Elektrische Leitfähigkeit des Siliziums (The Electrical Conductivity of Silicon).—H. J. Seemann, p. 225.
- Sound Beam Sending Horn, p. 347.
- Acoustic Marine Sounding, p. 169.
- The Sound Rangers.—G. E. Moore, p. 168.
- Sound Recording with the Light Valve.—D. MacKenzie, p. 286.
- Spark Ignition.—E. Taylor Jones, p. 228.
- Sur les Spectres d'émission du Sélénium et du Tellure (Spark Spectra of Selenium and Tellurium).—L. and E. Bloch, p. 115.
- Radium as a Means of Preventing Sparks from Static Electricity in certain Factories, p. 346.
- Velocity of Particles Sputtered by Disruptive Discharge.—H. Nagaoka and T. Futagami, p. 225.
- Sur le Calcul des Machines Electrostatiques (The Calculation of Electrostatic Machines).—H. Chaumat, p. 405.
- Comparaison entre les Machines Electrostatiques et les Machines Dynamico à Courant Continu (Comparison between Static Electrical Machines and D.C. Dynamos).—H. Chaumat, p. 405.
- Une Machine électrostatique à Courant continu (An Electrostatic D.C. Machine).—H. Chaumat, p. 465.
- Les Machines électrostatiques en Fonctionnement sur des Condensateurs (Electrostatic Machines acting on Condensers).—H. Chaumat, p. 465.
- A Rapid Method for Determining the Limit of Endurance for Bending of Steels, by the Measurement of the Electrical Resistance.—S. Ikeda, p. 466.
- La Stérilisation de l'Eau et des Liquides par les Circuits en Métal en Contact direct avec le Liquide (The Sterilisation of Water and other Liquids by Metal Circuits in direct Contact with the Liquid).—G. Lakhovsky, p. 405.
- Les Ondes ultrasónores (Supersonic Waves).—S. Weil, p. 168.
- An Intensity Gauge for "Supersonic" Radiation in Liquids.—W. T. Richards, p. 405.
- Das Schalten grosser Leistungen (High Power Switching).—F. Kesselring, p. 650.
- Mathematical Symbols, p. 227.
- Synchronisation and Speed Control of Synchronised Sound Pictures.—H. M. Stoller, p. 286.
- Vacuum Tube Synchronising Proves Advantageous, p. 169.
- "Talkies" in the Home, p. 406.
- Talking Films. No. 1.—The British Photophone System, p. 116.
- Talking Films. No. 2.—The British Acoustic Film System, p. 169.
- Talking Films. No. 3.—The Tri-Ergon Single-Unit Process, p. 406.
- A Voice Frequency Multi-channel Telegraph System.—J. M. Owen and J. A. S. Martin, p. 404.
- Composited Telegraph and Telephone Working.—J. M. Owen and J. A. S. Martin, p. 647.
- Voice-Frequency Telegraphs.—W. Cruickshank, p. 647.
- Die Fernmeldelechnik im Spiegel der E.T.Z. (The Science of Telephony in the Mirror of E.T.Z.).—E. h. Feyerabend, p. 646.
- Teletype Model 14, p. 647.
- Die elektrische Festigkeit dünner Schichten (The Electrical Strength of Thin Films).—A. Joffe, p. 225.
- On Thermoelectric Phenomena of Thin Metallic Films.—T. Terada, S. Tanaka and S. Kusaba, p. 403.
- Things We Don't Think of.—H. M. Hobart, p. 115.
- Use of Thyratron for Furnace Temperature Control, p. 287.
- Zum Uhrvergleich auf Drahtlosem Wege nach der Koinzidenzhörmethode (Time Checking by Wireless on the Aural Method of Coincidence).—H. Martin, p. 228.
- Three-electrode Valves used in Chemical Titration Processes.—B. Kamienski, p. 235.
- Automatic Titration using Photoelectric Cell and Valve Amplifier.—General Electric Company, p. 286.
- Eine Optisch-elektrische Zugbeeinflussung (An Optical-electrical System of Train Control).—Baeseler, p. 115.
- Erfahrungen über selbsttätige Zugbeeinflussungen (Trials of Automatic Train Control), p. 466.
- Train Wireless, p. 466.
- Radio in Trains, p. 525.
- "The Transmitting Station actually sends out Waves of one definite Frequency, but of Varying Amplitude."—A. W. Ladner, p. 115.
- "The Transmitting Station actually sends out waves of One definite Frequency, but of Varying Amplitude."—A. B. Howe, p. 236.
- The Thoma Modification of the Ultra-micrometer, p. 590.
- The Chemical Action of Ultrasonic Radiation.—Schmitt, Johnson and Olson, p. 405.
- Ultrasonic, see also Supersonic.
- A New Ultra-violet Lamp, p. 116.
- Sur Nuclear Derivatives and the Lethal Action of Ultra-violet Light.—F. L. Gates, p. 228.
- Ultra-violet Light and Tracing Cloth, p. 346.
- Some Technical Uses of Ultra-violet Radiation.—L. V. Dodds, p. 116.
- Violet and Ultra-Violet Hot-Cathode Tubes, p. 649.
- Signalling by Ultra-Violet Radiation.—Y. Rocard, p. 650.
- Sur une Nouvelle Méthode de la Mesure de la Vitesse des Fluids basée sur l'Emploi d'Oscillateurs à Lampe (A New Method of Measuring the Velocity of Fluids, using Valve Oscillators).—P. Dupin, p. 286.
- Relative Visibility of Luminous Flashes from Neon Lamps and from Incandescent Lamps with and without Red Filters.—F. C. Breck-enridge and J. E. Nolan, p. 648.
- Wie Hoch muss eine Spannung sein, um dem Menschen Gefährlich zu Werden? (How High must a Voltage be to be Dangerous to Life?).—H. Weber, p. 115.
- Über ein Neues Prinzip zur Herstellung hoher Spannungen (A New Principle for the Production of High Voltages).—R. Wideröe, p. 169.
- Testing Installation for 500,000 Volts at the Electrotechnical Laboratory, Italy, p. 227.
- Wired Wireless "Monophone" Telephony, p. 404.
- Wired Wireless, see also Carrier, Telegraphy, Communication.
- The Use of X-rays in the Testing of Engineering Materials, p. 465.