

## SUBJECT INDEX

### Acoustics

— of London's New Concert Hall; Nov., 26.  
Impact of — on Music, The; Robert H. Tanner; Nov., 21.  
Reverberation-Time Calculation, Simplified; (Chart) Lewis S. Goodfriend; May, 20.

### Audio Engineering Society Papers

Automatic Audio Gain Controls; J. L. Hathaway; I Sept., 16; II Oct., 27.  
Convention Program; Oct., 30.  
Diamond as a Phonograph Stylus Material, The; E. J. and M. V. Marcus; July, 25.

Longitudinal Noise in Audio Circuits; H. W. Augustadt and W. F. Kannenberg; I Jan., 22; II Feb., 18.  
Sound Reinforcing Systems; Arthur W. Schneider; Nov., 27.

### Amplifiers

Automatic Audio Gain Controls; (AES) J. L. Hathaway; I Sept., 16; II Oct., 27.  
Cathode Follower Output Stage, The; Robert M. Mitchell; Feb., 12.  
Equipment Report: Rauland 1825 High-Fidelity Phono Amplifier; April, 25.  
Feedback —, Considerations in the Design of; Herbert J. Keroes; I May, 14; II June, 17.

For Golden Ears Only; Joseph Marshall; Mar., 13.

Limiting —, Performance and Operation of a New; G. A. Singer; Nov., 18.  
Loudspeaker Damping as Function of Plate Resistance of Output Tube; Donovan V. Geppert; Nov., 30.

Reduction in Output Impedance Obtained with Negative Feedback, (Chart); Willard F. Meeker; Feb., 23.

"Williamson" Type — Using 6A5's; J. H. Beaumont; Oct., 24.

### Amplifiers, Pre-

Audio Input System for the Discriminating Listener, An; Wayne B. Denny; Jan., 9.

Equalized — using Single-Stage Feedback; Lawrence Fleming; March, 24.

Phonograph Reproductions; (Audiana) C. G. McProud; I Feb., 24; II March, 20.

Analogies, Dynamical; (Audiana) Lewis S. Goodfriend; I Sept., 20; II Oct., 36.  
Attenuator Calculator using Vector Slide Rule. Rapid; A. E. Richmond; Dec., 19.

### Audiana

Construction Practice; C. G. McProud; friend; I Sept., 20; II Oct., 36.

Dynamical Analogies; Lewis S. Goodfriend; I Sept., 20; II Oct., 26.  
Equivalent Circuits; Lewis S. Goodfriend; Aug., 20.

High Fidelity; Lewis S. Goodfriend; I Nov., 32; II Dec., 34.

Miller Effects, The; Lewis S. Goodfriend; July, 28.

Phonograph Reproduction; C. G. McProud; I Feb., 24; II March, 20.

Recording Characteristics; C. G. McProud; II, Jan., 20.

Audio in England; H. A. Hartley; I Jan., 42; II Nov., 36.

### Audio Fair, The

Directory of Exhibitors; Oct., 32.  
Review; Dec., 24.

### Broadcasting

Frequency-Controlled Rotary Converters; Robert W. Carter; June, 18.

Remote Installations; Elliott D. Full; Oct., 18.

Cabinets for Home Use, Readers' Mc-

gestions; March, 19.  
Cathode Follower Output Stage, The; Robert M. Mitchell; Feb., 12.

### Charts

Hygrometric Chart, A New; "Stylus"; April, 24.

Reduction in Output Impedance Obtained with Negative Feedback; Willard F. Meeker; Feb., 23.

Resonant Loudspeaker Enclosures; Bob Hugh Smith; Dec., 22.

Reverberation-Time Calculation, Simplified; Lewis S. Goodfriend; May, 20.

Wavelength for Air; Lewis S. Goodfriend; Oct., 34.

### Components

Frequency Controlled Rotary Converters; Robert W. Carter; June, 18.

Optimum Use of Nickel Alloy Steels in Low-level Transformers; L. W. Howard; Oct., 20.

Construction Practice; C. G. McProud; I April, 26; II May, 19; III June, 26.

### Controls

Overcoming Fletcher-Munson Effects; Nathan Grossman and Meyer Leifer; April, 22.

Continuously Variable Loudness —; E. E. Johnson; Dec., 18.

**Equipment Report:** Rauland 1825 High-Fidelity Phono Amplifier, April, 25.

**Filter** Characteristics, Measurement of High-Pass; Werner E. Neuman, Feb., 14.

**Flewelling** Audio System, The; E. T. Flewelling; Nov., 15.

**Hearing Aid** Trends; F. Hardwick; June, 23.

**High Fidelity** (Audiana); Lewis S. Goodfriend; I Nov., 32; II Dec., 34.

**Imagery** for Describing Reproduced Sound; Vincent Salmon; I Aug., 14; II Sept., 14.

**Intermodulation** Measurements, Simplified; John M. van Beuren; Nov., 24.

### Loudness Controls

Continuously Variable —; E. E. Johnson; Dec., 18.

Overcoming Fletcher-Munson Effects; Nathan Grossman and Meyer Leifer; April, 22.

### Loudspeakers

Adventure in Loudspeaker Design, An; Howard T. Souther; June, 14.

Crossover Network for Unequal Voice-Coil Impedances; Watson F. Walker; July, 14.

Design, Construction, and Adjustment of Reflexed Cabinets; David W. Worden; Dec., 15.

— for the Range from 5 to 20 kc. A; B. H. Smith and W. T. Selsted; Jan, 16.

New — of Advanced Design, A; Daniel J. Plach and Philip E. Williams; Oct., 22.

Resonant — Enclosures, (Chart); Bob Hugh Smith; Dec., 22.

Sensitivity, Directivity, and Linearity of Direct Radiator —; Harry F. Olson; Oct., 15.

Symmetrical Corner —, A; W. E. Oilson and J. J. Andrea; Mar., 16.

Transient Testing of —; Murlan S. Corrington; Aug., 9.

### Measurements

Audio Frequency Phasemeter, An Improved; O. E. Kruse and R. B. Watson; Feb., 9.

Determining the Tracking Capabilities of A Pickup; H. E. Roys; May, 11.

Determining Unknown Impedances in Transformers; L. H. Hippe; Dec., 21.

Distortion and Noise Meter, Fixed-Filter Type; J. P. Smith; Nov., 22.

Filter Characteristics, — of High-Pass; Werner E. Neuman, Feb., 14.

Impedance "Jig", An; Allen W. Smith; March, 18.

Intermodulation —, Simplified; John M. van Beuren; Nov., 24.

Intermodulation Analyzer for Audio Systems, An; Roy S. Fine; July, 11.

Phase-Shift Method of Measuring Flutter; Charles A. Hisserich and Arthur Davis; July, 15.

Simple Stroboscopes; L. B. Hedge; Aug., 22.

Transient Testing of Loudspeakers; Murlan S. Corrington, Aug., 9.

White Noise Generator for Audio Frequencies; J. M. Gottschalk, May, 16.

White-Noise Testing Methods; Emory Cook; March, 13.

### Microphones

Bantam Velocity —, The; L. J. Anderson and L. M. Wigington; Jan., 12.

KB-3A High-Fidelity Noise-Cancelling —, The; L. J. Anderson and L. M. Wigington; April, 16.

Unobtrusive Pressure —; Harry F. Olson and John Preston; July, 18.

Miller Effect, The. (Audiana); Lewis S. Goodfriend; July, 28.

Motion Pictures, Magnetic Recording in; M. Rettinger; I March, 9; II April, 18.

### Negative Feedback

Considerations in the Design of - Amplifiers; Herbert I. Keroes; I May, 14; II June, 17.

Reduction in Output Impedance Obtained with, (Chart); Willard F. Meeker; Feb., 23.

Networks, Crossover, for Unequal Voice-Coil Impedances; Watson F. Walker; July, 14.

### Noise

Longitudinal — in Audio Circuits (AES Paper); H. W. Augustadt and W. F. Kannenberg; I Jan., 22; II Feb., 18.

White-Noise Generator for Audio Frequencies; J. M. Gottschalk, May, 16.

White-Noise Testing Methods; Emory Cook; March, 13.

P. A. Systems, Aircraft; George H. Warfel; Jan., 19.

Patent Infringement and the Home Experimenter; Albert E. Hayes, Jr., June, 28.

Phasemeter, An Improved Audio-Frequency; O. E. Kruse and R. B. Watson; Feb., 9.

Phonograph Records, The Best British of 1949; H. A. Hartley; Nov., 38.

### Phonograph Reproduction

Determining the Tracking Capabilities of a Pickup; H. E. Roys; May, 11.

— (Audiana); C. O. McProud; I Feb., 24; II March, 20.

Diamond As a Phonograph Stylus Material; (AES Paper) E. J. and M. V. Marcus; July, 25.

### Psycho Acoustics

Controversial Idea from England; P. G. A. H. Voigt; Oct., 40.

### Recording, Disc

Columbia Hot-Stylus Recording Technique, The; William S. Bachman; June, 11.

Heated Stylus Recording Technique (AES); Leon A. Wortman; July, 24.

New Technique for Reducing Distortion in Sound Recording; Caldwell P. Smith; April, 28.

- Recording Characteristics (Audiana); C. G. McProud; II Jan., 20.
- Recording and Fine-Groove Technique; H. E. Hoys; Sept., 11.
- Recording, Magnetic**
- Art of Tape Recording. The; Joel Tall; I May, 13; II June, 20; III July, 22; IV Aug., 16; V Sept., 15.
- of Meter Data; R. E. Zenner; Feb., 16.
- in Motion Pictures; M. Rettinger; I March, 9; II April, 18.
- New Technique for Reducing Distortion in Sound Recording; Caldwell P. Smith; April, 28.
- Performance plus Economy Tape Recorder; Jay Blakesley; Nov., 20.
- Reverberation-Time Calculation, Simplified (Chart); Lewis S. Goodfriend; May, 20.
- Speech Communication Conference at M. I. T.; Leo L. Beranek; July, 21.
- Stereophonic Reproduction; Tenny Lode; Jan., 15.
- Transformers**
- Determining Unknown Impedances in ——; L. H. Hippe; Dec., 21.
- Optimum Use of Nickel Alloy Steels in Low-Level ——; L. W. Howard; Oct., 20.