

SUBJECT INDEX

1957

ACOUSTICS

Auditorium acoustics and control facilities for reproduction in auditory perspective; E. H. Bedell, Sept. 24.

AMPLIFIERS

Care and treatment of feedback audio amplifiers; W. B. Bernard, Jan. 30.
Electrical adjustment in fitting a new output transformer; Norman H. Crowhurst, Apr. 19.
High-quality treble amplifier; Charles W. Harrison Jr. Aug. 15.
High-quality tape recorder amplifier; Herman Burstein and Henry C. Pollak, I Jan. 15; II Feb. 32.
How an output transformer causes distortion; Norman H. Crowhurst, I Feb. 20; II Mar. 21.
Impedance and feedback in audio circuits; Herman Burstein and Henry C. Pollak, Dec. 26.
Low-noise transistor microphone amplifier; James T. Davidson, Oct. 28.
Output transformer specifications; Norman H. Crowhurst, June 20.
Sad case of a half-watt resistor; Walther Richter, Dec. 36.
Single-channel transistorized remote amplifier; John K. Birch, May 36.
Stereophonic magnetic recording amplifier; Arthur W. Wayne, Oct. 21; Nov. 38.
Stereo-monaural companion amplifier for the "Preamp with Presence"; Louis Bourget, Nov. 19.
Transistor playback amplifier; Fred Wyman, Sept. 20.
Two-channel mixer for Auricon film camera; Donald K. Haahr, Nov. 36.
Two-channel transistor remote amplifier-mixer; Donald K. Haahr, Sept. 46.
Which tube shall I use?; George Fletcher Cooper, Nov. 30.

ATTENUATORS

High-impedance mixing for professional audio equipment; George L. Augspurger, Feb. 13.
Matching impedance, variable attenuation box; Harold Reed, May 46.

BELL TELEPHONE LABORATORY Series

Acoustic illusion telephonically achieved; Harvey Fletcher, July 22.
Auditorium acoustics and control facilities for reproduction in auditory perspective; E. H. Bedell, Sept. 84.
Auditory perspective; W. B. Snow, Aug. 20.
Loudness, its definition, measurement, and calculation; Harvey Fletcher and W. A. Munson, I Nov. 53; II Dec. 40.
Loudspeakers and microphones for auditory perspective; A. L. Thuras, Oct. 34.
Reproduction of orchestral music in auditory perspective; June 16.

BOOK REVIEW

Acoustics for the Architect; Harold Burris-Meyer and Lewis Goodfriend, Oct. 77.

BROADCASTING

Low-noise transistor microphone amplifier; James J. Davidson, Oct. 28.
Single-channel transistorized remote amplifier; John K. Birch, May 36.
Two-channel mixer for Auricon film camera; Donald K. Haahr, Nov. 36.
Two-channel transistor remote amplifier-mixer; Donald K. Haahr, Sept. 46.

CONTROLS

"Free-riding" control relays; Ronald L. Ives, Mar. 20.

CROSSOVER NETWORKS

RC crossover compromise; Norman H. Crowhurst, July 17.

DESIGN

Impedance and feedback in audio circuits; Herman Burstein and Henry C. Pollak, Dec. 26.

Which tube shall I use?; George Fletcher Cooper, Nov. 30.

DISTORTION

Sad case of a half-watt resistor; Walther Richter, Dec. 36.
"Understanding intermodulation distortion; Mannie Horowitz, Aug. 22.

ENCLOSURES

Aperiodic loudspeaker enclosure; Dr. E. De Boer, July 13.
I get hot music from a cool cabinet; David K. Slifer, Mar. 24.
Integral speaker systems, pro and con; Herman Burstein, Oct. 40.
"Standard" speaker system; C. Q. McProud, Jan. 86.
Toward ultimate high fidelity; Bruce H. Vardeman, Apr. 17.

EQUALIZERS

Equalizer design; Norman H. Crowhurst, I Aug. 17; II Sept. 34.
Professional equalizer-preamp suitable for home use; Kenneth W. Betsch, Feb. 18.

EQUIPMENT REVIEWS

AR-2 Loudspeaker; Sept. 54.
Audak KT Arm; Mar. 35.
B-J series 90 Arm; Nov. 64.
Bogen ST10 stereo conversion amplifier; July 26.
Capps condenser microphone; Mar. 35.
Connoisseur turntable; Feb. 40.
Dyna preamp and Dynakit III; Dec. 50.
ESL "Dust Bug"; Oct. 52.
Fairchild 412-1 turntable, 280A transcription arm; Dec. 50.
Garrard line of phono equipment, Dec. 54.
Garrard Model T "Mark II"; July 26.
Garrard TPA-10 Arm; Oct. 48.
General Electric VR-II Pickup; Dec. 52.
Grado Pickup; Sept. 54.
Kingdom Audette Sr.; Sept. 56.
Metzner Starlight turntable and arm; Oct. 52.
Miratwin, Miracord, and Miraphon line; Sept. 52.
Philips tape recorder; Nov. 60.
Pickering Fluxvalve cartridge; Feb. 38.
Pilot AA-920 and AA-903B amplifiers; Oct. 50.
Shure Bros' Dynetic pickup; May 48.
Sonotone HFA-150 amplifier; Apr. 36.
Steel Slides; Feb. 40.
Stephens FR-80 loudspeaker; Oct. 48.
Tape-Indx and Perma-File; Oct. 101.
Tech-master Model 19K 60-watt amplifier; July 25.
Wharfedale 3-way speaker systems; Nov. 62.
Xophonic reverberation unit, Nov. 64.

FEEDBACK

Care and treatment of feedback audio amplifiers; W. B. Bernard, Jan. 20.
Impedance and feedback in audio circuits; Herman Burstein and Henry C. Pollak, Dec. 26.

HUM

Hum specification measurements; Mannie Horowitz, June 26.
More about hum; Harold Reed, Jan. 25.

LAW

Essentials of combination patents; Albert Woodruff Gray, Mar. 30.
Forbidden fruit of patent pooling; Albert Woodruff Gray, Nov. 42.

LOUDSPEAKERS

Aperiodic loudspeaker enclosure; Dr. E. De Boer, July 13.
Integral speaker systems, pro and con; Herman Burstein, Oct. 40.
Loudspeaker damping; Edgar Villchur, Oct. 24.
RC crossover compromise; Norman H. Crowhurst, July 17.
"Standard" speaker system; C. G. McPrond, Jan. 26.

Toward ultimate fidelity; Bruce H. Vardeman, Apr. 17.

MANUFACTURING

How the factory does it, Feb. 30.

MEASUREMENTS

Hum specification measurements; Mannie Horowitz, June 26.
Transistor VU meter; Paul Penfield Jr. Apr. 22.

MERCHANDISING

Hi-Fi salesman—friend or foe?; Marco Karpodines, May 26.

MUSICAL INSTRUMENTS

Violin and its hi-fi analogies; Anthony Doschek, I Sept. 17; II Oct. 42.

NETWORKS

Recording characteristic simulator; S. K. Ghandi, Apr. 24.

PATENTS

Cascade amplifier for phono preamps; Joseph Marshall, Apr. 26.
Essentials of combination patents; Albert Woodruff Gray, Mar. 30.
Forbidden fruit of patent pooling; Albert Woodruff Gray, Nov. 42.
Phonograph pickup arm—a problem; H. A. Schwan, Apr. 28.
Professional equalizer-preamp for home use; Kenneth W. Betsch, Feb. 18.
Transistor preamp for low-output pickups; Anton Schmitt, July 20.

PREAMPLIFIERS

Cascade amplifier for phono preamps; Joseph Marshall, Apr. 26.
Transistor preamp for low-output pickups; Anton Schmitt, July 20.

PRINTED CIRCUITS

Role of printed wiring in high fidelity; Norman H. Crowhurst, May 17.

PSYCHOACOUSTICS

Above all, the ear; Jennis A. Nunley, May 15.
Acoustical and electrical considerations in symphony orchestra reproduction; Walter T. Selsted, Jan. 22.
Acoustic illusion telephonically achieved; Harvey Fletcher, July 22.
Adequate audio power in the home; James Moir, Mar. 16.
Auditory perspective; W. B. Snow, Aug. 20.
Electrostatics, watts, realism and concert halls; Gilbert A. Briggs, Feb. 26.
Fidelity perilous; George L. Angspurger, Oct. 30.
Hi-Fi in the home—musical sound or blast; Leonard Warren, Mar. 15.
Loudness, its definition, measurement and calculation; Harvey Fletcher and W. A. Munson, I Nov. 53; II Dec. 40.
Loudspeakers and microphones for auditory perspective; A. L. Thuras, Oct. 34.
New concept on psychological aspects of stereo sound; H. F. Hume, Mar. 26.
Reproduction of orchestral music in auditory perspective; June 16.
"Third dimension" in sound; Sept. 22.

RECORDING, Disc

Recording characteristic simulator; S. K. Ghandi, Apr. 24.
Take your recording room with you, Feb. 24.

RECORDING, Tape

Dubbings duplicator; Herman Burstein, Nov. 23.
High-quality tape recorder amplifier; Herman Burstein and Henry C. Pollak, I Jan. 15; II Feb. 32.
Stereophonic magnetic recording amplifier; Arthur W. Wayne, I Oct. 21; II Nov. 38.
Stereo recorder—a revelation and an education; Joseph E. Freda, Dec. 19.

RESISTORS

Sad case of a half-watt resistor; Walther Richter. Dec. 36.

STEREOPHONIC

Acoustic illusion telephonically achieved; Harvey Fletcher. July 22.
Auditory perspective; W. B. Snow. Aug. 20.
Loudspeakers and microphones for auditory perspective; A. L. Thuras. Oct. 34.
New concept on psychological aspects of stereo sound; H. P. Hume. Mar. 26.
Reproduction of orchestral music in auditory perspective; June 16.
Stereo-monaural companion amplifier for the "Preamp with Presence"; Louis Bourget. Nov. 19.
Stereo recorder—a revelation and an education; Joseph B. Freda. Dec. 19.

SYSTEMS

Acoustical and electrical considerations in symphony orchestra reproduction; Walter T. Selsted. Jan. 22.
Electrostatics, watts, realism, and concert halls; Gilbert A. Briggs. Feb. 26.
Ford Memorial Auditorium exemplifies sound redesign; Bert Ennis. May 28.
High-impedance mixing for professional audio equipment; George L. Augspurger. Feb. 15.

How to plan your Hi-Fi System; C. R. Tieman. Dec. 24.
Integral speaker systems, pro and con; Herman Burstein. Oct. 40.
System simplicity in audio; R. G. Chappick. Jan. 38.
"Third dimension" in sound; Sept. 22.

TEST EQUIPMENT

Matching impedance, variable attenuation box; Harold Reed. May 46.

TONE CONTROLS

Transistor tone-control circuits; F. D. Waldhauer. Sept. 27.

TRANSFORMERS

Electrical adjustment in fitting a new output transformer; Norman H. Crowhurst. Apr. 19.
How an output transformer causes distortion; Norman H. Crowhurst. I Feb. 20; II Mar. 21.
Output transformer specifications; Norman H. Crowhurst. June 20.
Transformer impedance transformation; Harold Reed. June 24.
Transformers in transistorized equipment; Norman H. Crowhurst. Nov. 46.

TRANSISTORS

Low-noise transistor microphone amplifier; James J. Davidson. Oct. 28.
Single-channel transistorized remote amplifier; John K. Birch. May 36.
Transformers in transistorized equipment; Norman H. Crowhurst. Nov. 46.
Transistor playback amplifier; Fred Wyman. Sept. 20.
Transistor preamp for low-output pickups; Anton Schmitt. July 20.
Transistor tone-control circuits; F. D. Waldhauer. Sept. 27.
Transistor VU meter; Paul Penfield Jr. Apr. 22.
Two-channel mixer for Auricon film camera; Donald K. Haahr. Nov. 36.
Two-channel transistor remote amplifier-mixer; Donald K. Haahr, Sept. 46.

TUBES

Which tube shall I use?; George Fletcher Cooper. Nov. 30.

TUNERS

Add a tuning indicator to ratio-detector FM receiver; Carl R. Wischmeyer, Apr. 32.