

SUBJECT INDEX

1958

AMPLIFIER

Amplifier performance: specifications and evaluation; Herman Burstein. Feb. 24.
Amplifier using the new 6CZ5's; Nathan Grossman. July 23.
Auto audio system; William B. Fraser. Mar. 19.
Compact two-channel amplifier for stereo systems; C. G. McProud. Aug. 54.
Damping factor chart; Phil Phillips. Nov. 24.
For stereo—the bi-ortho output circuit; C. Nicholas Pryor. Nov. 22.
High-power audio amplifiers; Mannie Horowitz. Mar. 34.
Hybrid feedbacks for power amplifiers; Herbert I. Keroes. Sep. 30.
Improving the tape amplifier; Herman Burstein and Henry C. Pollak. July 17.
Integrated audio monitor for home and studio use; Ronald L. Ives. Apr. 24.
"Isodyne" phase splitter; E. F. Worthen. Aug. 26.
Low-distortion 50-watt amplifier; W. I. Heath and G. R. Woodville. Jan. 19.
Measurement of amplifier internal impedance; W. H. Anderson. Sep. 22.
Simplified audio amplifier; R. G. Chaplick. Oct. 24.
Stereo compatibility translator; Herbert M. Honig. Aug. 24.
Stereophonic recording and playback amplifier; Wayne K. Denny. Sep. 24.
Three channel remote amplifier; Albert Stratmoen. June 24.
Transients in feedback amplifiers; George Fletcher Cooper. Mar. 31.
Two-way stereophonic amplifier; B. B. Bauer, J. M. Hollywood, and G. P. Maerke. Oct. 19.
Variable stereo suppression control; John E. D'Errico. Aug. 23.

BELL TELEPHONE SYSTEM REPRINTS

Hearing, the determining factor for high-fidelity transmission; Harvey Fletcher. July 24, Aug. 45, Sep. 34.
Loudness—its definition, measurement, and calculation; Harvey Fletcher and W. A. Munson. Jan. 32, Feb. 34.
New system of sound recording; H. C. Harrison. May 34.
Universal phonograph reproducer; H. A. Henning. Mar. 40.

BOOK REVIEWS

Music and the western man; ed. by Peter Garvie. Oct. 12.
Tape Recorder Circuits; Herman Burstein and Henry C. Pollak. Feb. 55.

CABINET

Design of a high-quality stereo console; R. A. Joss. Nov. 38.

CONTROLS

Complete tone compensator; Robert M. Voss. June 18.
Improved loudness control; J. P. Wentworth. Jan. 30.

DAMPING FACTOR

Damping factor chart; Phil Phillips. Nov. 24.

DISTORTION

Feedback and distortion; George Fletcher Cooper. Feb. 30.

ELECTRONIC SWITCH

Simple electronic switch; P. Cremaschi. Feb. 26.

ENCLOSURES

Compact ultra-linear speakers for stereo; Victor Brociner. Aug. 38.
Compass-1—a new loudspeaker design; Milton D. Thalberg. Apr. 34.
Custom-built corner horn enclosures; Laurent Gagnon. Feb. 20.
Improvement in "air suspension" speaker enclosures with tube venting; Philip B. Williams and James F. Novak. Nov. 18.

EQUALIZATION

Equalization in tape recorders; Herman Burstein. Mar. 28.

EQUIPMENT REVIEWS

Aero Ultra-Linear II Amplifier. Dec. 42.
Ampex stereo system. Mar. 48.
Audio Tech speaker. Oct. 52.
Baker 12" loudspeaker. June 34.
Connoisseur pickup and phono arm. Feb. 36.
Conrac Fleetwood TV. Mar. 52.
EICO HFT-90 FM tuner kit. June 36.
ESL Series 60 pickup. Apr. 42.
Fairchild 248 stereo amplifier. Dec. 46.
General Electric stereo cartridges. Dec. 45.
Glaser-Steers GS-77 changer. Apr. 39.
Harman-Kardon A-224 stereo amplifier/pre-amplifier. Nov. 46.
F-10 FM tuner. Sep. 44, Oct. 56.
Heathkit EA-2 amplifier. July 30.
W-6M amplifier. Jan. 42.
ISI A-10 speakers. Feb. 36.
KLH speaker line. May 38.
Karg "Tunematic" FM tuner and multiplex/stereo units. Oct. 54.
Lektrostat record cleaner. July 30.
Madison Fielding 320 stereo amplifier and 330 stereo tuner. Sep. 42.
Miracord XS-200 changer. June 34.
Neshaminy Z-200 speaker system. Mar. 52.
Pentron tape-recording equipment. June 36.
Pickering "Isophase" loudspeaker. Jan. 42.
Pilot SP-125 stereo preamplifier and SM-244 stereo amplifier. June 38.
Sargent-Raymont 300-M70 FM tuner and 70-watt amplifier combination. Feb. 38.
Scott 135 Stereo-adaptor. May 39.
Shure 330 and 430 microphones. Jan. 46.
Tannoy "Belvedere" speaker. Oct. 56.
Tandberg Model 3-Stereo tape recorder. July 28.
Telematic speaker. Oct. 52.
United Speaker Systems' X-100 speaker. Nov. 46.
Viking 85 tape deck and RP-61 amplifier. Dec. 43.

FANTASY

New steampax recorder; Llessur Mahknit. Oct. 28.

FEEDBACK

Feedback and distortion; George Fletcher Cooper. Feb. 30.
Hybrid feedbacks for power amplifiers; Herbert I. Keroes. Sep. 30.
Transients in feedback amplifiers; George Fletcher Cooper. Mar. 31.

FILTERS

Comb filters, anyone? Norman II. Crowhurst. June 17.

IMPEDANCE MATCHING

Why match impedances? Paul Penfield, Jr. Apr. 32.

LAW

Employer rights in employee inventions. Albert W. Gray. Oct. 50.
Price discrimination in wholesale and retail sales. Albert W. Gray. Feb. 60.
Trinity of the patent law— invention, novelty, and utility; Albert W. Gray. Mar. 44.

LOUDSPEAKERS

Compact Ultra-Linear speakers for stereo; Victor Brociner. Aug. 38.
Compass-1—a new loudspeaker design; Milton D. Thalberg. Apr. 34.
High-fidelity buss cone loudspeakers; A. B. Sarkar. Dec. 28.
Improvement in "air suspension" speaker enclosures with tube venting; Philip B. Williams and James F. Novak. Nov. 18.
New high-frequency speaker; Edgar Villchur. Oct. 38.
Two custom-built corner horn enclosures; Laurent Gagnon. Feb. 20.

MEASUREMENTS

Measurement of amplifier internal impedance; W. H. Anderson. Sep. 22.
Output power measurements; Mannie Horowitz. Dec. 38.
Simple transistor tester; Richard Burwen. May 30.
Stabilized variable-sensitivity tuning meter; Ronald L. Ives. June 20.

Transistor beta tester with linear scale; Sergio Bernstein. July 21.
Understanding the db, dbm, and the VU; Julian L. Bernstein. Nov. 30.
VU meter in tape recording; Herman Burstein. Dec. 17.

MICROPHONES

M-S stereophony and compatibility; Gerhart Bore and Stephen F. Temmer. Apr. 19.

MIXER

Ten-channel audio mixer-preamplifier; Harold Reed. Jan. 27.

MULTIPLEX

Compatible stereo multiplex adapter; Leonard Feldman. Oct. 30, Nov. 42.
FM/Multiplex converter; Harold R. Day. Aug. 19.
Questions and answers on stereo and m/x; Louis J. Kleinklaus. Aug. 20.

NETWORKS

EC filter design for high impedance crossover networks; Charles W. Harrison, Jr. Nov. 34.
Use of twin-T type networks; Norman H. Crowhurst. May 19.

PATENTS

Trinity of the patent law— invention, novelty, and utility; Albert W. Gray. Mar. 44.

PHONOGRAPHEQUIPMENT

Adapting a Garrard changer to stereo pickups; May 32.
Convert your Collaro to stereo; Stanley G. Neufeld. Aug. 42.

PHONOGRAPH PICKUPS

How to make a stereo pickup; C. G. McProud. Feb. 17.
Manufacture of a high-quality cartridge; Ruben E. Carlson. Aug. 30.
Toward an optimum stereo cartridge; Herbert H. Horowitz. Oct. 44.
Universal phonograph reproducer; H. A. Henning. Mar. 40.

PREAMPLIFIERS

Complete tone compensator; Robert M. Voss. June 18.
Paging preamplifier; Mannie Horowitz. Apr. 22.
Simplified control unit; R. G. Chaplick. Sep. 17.
Ten-channel audiomixer-preamplifier; Harold Reed. Jan. 37.

PSYCHOACOUSTICS

Hearing, the determining factor for high-fidelity transmission; Harvey Fletcher. July 24, Aug. 45, Sep. 34.
Loudness—its definition, measurement and calculation; Harvey Fletcher and W. A. Munson. Jan. 32, Feb. 34.
Standing waves—an audio booby trap; William D. Bell. Oct. 22.

RECORDING, DISC

Compatible stereophonic record; B. B. Bauer, Peter C. Goldmark, and William S. Bachman. May 26.
Improving the performance of stereophonic disc playback systems; B. B. Bauer. Aug. 34.
New approach to stereo discs; Maximilian Weil. June 28.
New electromechanical method of matrixing the two components in stereophonic disc recording; Hans-Joachim Klemp, Horst Redlich, and Stephen F. Temmer. Nov. 26.
New systems of sound recording; H. C. Harrison. May 34.
Phasing in stereophonic recording; William S. Bachman. Nov. 17.

RECORDING, TAPE

Equalization in tape recorders; Herman Burstein. Mar. 28.
Improving the tape amplifier; Herman Burstein and Henry C. Pollak. July 17.
Stereophonic recording and playback amplifier; Wayne B. Denny. Sep. 24.
Tape tension—the neglected dimension; Erwin J. Saxl. Dec. 34.

VU meter in tape recording; Herman Burstein and Henry C. Pollak. Dec. 17.

SHIELDING

Spiral steel shielding for audio circuits; Ronald L. Ives. Dec. 40.

SOUND MOTION PICTURES

Amateur sound film equipment; H. Thiele. Jan. 24.

STEREOPHONIC

Adapting a Garrard changer to stereo pickups. May 32.

Compact two-channel amplifier for stereo systems; C. G. McProud. Aug. 54.

Compatible stereo multiplex adapter; Leonard Feldman. Oct. 30, Nov. 42.

Compatible stereophonic record; B. B. Bauer, William S. Bachman, and Peter C. Goldmark. May 26.

Convert your Collaro to stereo; Stanley G. Neufeld. Aug. 42.

FM/Multiplex converter; Harold R. Day. Aug. 19.

For stereo—the bi-ortho output circuit; C. Nicholas Pryor. Nov. 22.

How to make a stereo pickup; C. G. McProud. Feb. 17.

Improving the performance of stereo disc playback systems; B. B. Bauer. Aug. 34.

M-S stereophony and compatibility; Gerhart Bore and Stephen F. Temmer. Apr. 19.

Manufacture of a high-quality cartridge; Ruben B. Carlson. Aug. 30.

Monaural, binaural, monophonic, and stereophonic; Harry F. Olson. Sep. 28.

New approach to stereo discs; Maximilian Weil. June 28.

New electromechanical method of mat rising the two components in stereophonic disc recording; Hans-Joachim Klèmp, Horst Redlich, and Stephen F. Temmer. Nov. 26.

Phasing in stereophonic recording; William S. Bachman. Nov. 17.

Questions and answers on stereo and m/x; Louis J. Kleinklaus. Aug. 20.

Stereo compatibility translator; Herbert M. Honig. Aug. 24.

Stereo phasing problem; C. G. McProud. Sep. 38.

Stereophonic recording and playback amplifier; Wayne B. Denny. Sep. 24.

Toward an optimum stereo cartridge; Herbert H. Horowitz. Oct. 44.

Two-way stereophonic amplifier; B. B. Bauer, J. M. Hollywood, and G. P. Maer-

kle. Oct. 19.

Variable stereo-suppression control; John E. D'Errico. Aug. 23.

SYSTEMS

Auto audio system; William B. Fraser. Mar. 19.

Hi-fi with that coffee aroma; Edwin A. Snape. Dec. 20.

Sound recording and reinforcing at the Monterey jazz festival; Russell J. Tinkham. Dec. 22.

Trends in audio; Herman Burstein. Apr. 28.

TRANSIENTS

Testing for transients; George Fletcher Cooper. Apr. 26.

Transients in feedback amplifiers; George Fletcher Cooper. Mar. 31.

TRANSISTORS

Amateur sound film equipment; H. Thiele. Jan. 24.

Simple transistor tester; Richard Burwen. May, 30.

Transistor beta tester with linear scale; Sergio Bernstein. July 21.