

Wireless World

RADIO AND ELECTRONICS

VOLUME LII

JANUARY — DECEMBER 1946

ALL RIGHTS RESERVED

Published from the Offices of "WIRELESS WORLD"
ILIFFE & SONS LTD., DORSET HOUSE, STAMFORD ST., LONDON, S.E.1

INDEX—VOLUME LII

JANUARY — DECEMBER 1946

NOTES

To facilitate reference the month of issue as well as the page number is given.

The General Index is followed by a Classified Index under the headings of Books, Design, Electronics, Manufacturers' Products, Miscellaneous, Modulation, Organization, Propagation, Radar, Recording, Sound Reproduction, Television, Test and Measurement, Transmission, Valves and Thermionics, Illustrations and Authors. References to Authors, Books and Illustrations appear only in the Classified Index.

GENERAL INDEX

AC/DC Voltage Dropping, 236, July
Abacs for Filter Design (*Correction*), 31, Jan.
Aerials, by "Cathode Ray," 223, July; 251, Aug.
Aftermath of Security (*Correspondence*), 380, Nov.
Aids to Training, by M. G. Scroggie, 303, Sept.
"Airmet" Broadcasts (*News*), 117, Apr.
Air Navigation, by M. G. Scroggie, 352, Nov.
Allander Industries A4653 Receiver, 302, Sept.
All Power Transformers Television Test Generator (*News*), 271, Aug.
Amateur Communication Receiver, by H. B. Dent, 36, Feb.
 — Frequencies, 87, Mar.; 117, Apr.; 159, May; 193, June; 271, Aug.; 341, Oct.; 378, Nov.; 399, 400, Dec.
 — Licences re-issued, 13, Jan.
 — Transmitters (*Editorial*), 35, Feb.
 — Examination, 139, Apr.
Amateurs, B.A.O.R. (*News*), 86, Mar.
Amateurs' Examination, City and Guilds, 295, Sept.
American Service Valve Equivalents, List, 305, Sept., Additions, 383, Nov.
Amplifiers, Biological (*Correspondence*), 27, Jan.
 — Quality, 4, 8 and 12 watts, 2, Jan. (*Correction*), 61, Feb.
 — Wide-band, Design Data—2, 90, Mar.; —3, 125, Apr.; —4, 161, May
Appleton, Sir Edward, Faraday Award (*News*), 86, Mar.
Army Broadcasting Wavelengths, 414, Dec.
 — Wireless Set No. 10, 187, June; 282, Sept.
Astronomical Radar, by Arthur C. Clarke, 321, Oct.
Australian Radio, 306, Sept.
Aviation Radio Equipment, S.B.A.C. Exhibition, 366, Nov.; (*Addendum*), 429, Dec.
Avometer, Measuring Insulation Resistance, by J. Piggott, 263, Aug.
B.B.C. Accounts (*News*), 87, Mar.
 — and Government (*Editorial*), 105, Apr.
Brookmans Park New Mast, 407, Dec.
Charter (*Editorials*), 71, Mar.; 245, Aug.; (*Note*) 82, Mar.; (*News*) 270, Aug.
Disc Recording, by H. Davies, 14, Jan.
F.M. Tests, 316, Oct.; (*Correspondence*), 412, Dec.
 — Finance (*Correspondence*), 136, Apr.
 — Is it doing its job? by "Cataractacus," 96, Mar.
 — Publications (*Editorial*), 141, May
 — Stations List (*News*), 399, Dec.
 — Transmitters (*Correspondence*), 203, June, 278, Aug.
B.R.E.M.A. Report (*News*), 19, Jan.
 — Wavelength Plan, 22, Jan.; (*Correspondence*), 27, Jan.
Baird, death of J.L. (*News*), 228, July, An Appreciation, 277, Aug.
Belmont Pocket Radio, 310, Sept.
Biological Amplifiers (*Correspondence*), 27, Jan.

"Britain Can Make It" Exhibition, 342, Oct.
Brit.I.R.E., B.R.E.M.A. Wavelength Plan Discussion, 22, Jan.
 — Coming-of-Age (*News*), 399, Dec.
British Test Equipment, 306, Sept.
Broadcast Licence Restrictions (*Editorials*), 315, Oct.; 351, Nov.; (*Correspondence*), 345, Oct.
Broadcasting in U.S.A., by A. Dinsdale, 132, Apr.
 — Policy; Govt. White Paper (*Editorial*), 245 Aug.; (*News*), 270, Aug.
Bush Export Receiver, 178, June
CDP Recorder, Bourne Instrument Co., 275, Aug.
Cables, Radar, by E. W. Smith, 129, Apr.
Cathode Bias, Design Data—1, 21, Jan.
Cathode-Follower Dangers, by W. T. Cocking, 79, Mar.
Cavity Magnetrons, I.E.E. Convention Papers, 146, May
"Cintel" Metal Detector (*News*), 402, Dec.
Communication Receiver, Amateur, by H. B. Dent, 36, Feb.
 — R1155, Ex-R.A.F., by "Ex-Signals," 212, July; (*Correspondence*), 278, Aug.; 412, Dec.
Component Manufacturers' List, 111, Apr.
Components Exhibition, 106, Apr.
Consol, by John E. Clegg, 233, July
Contrast Expansion, by J. G. White, 120, Apr.; (*Correspondence*), 136, Apr.
Control of Wireless (*Editorial*), 1, Jan. (*Correspondence*), 63, Feb.; 100, Mar.
Conventions and Viewpoints, by "Cathode Ray," 299, Sept.
Corner Deflector Baffles, 181, June
Cracked Valves (*Correspondence*), 27, Jan.
Crystal-Controlled Frequency Modulation (*Correspondence*), 170, May
Crystal Microphones, Mixing, by G. N. Patchett, 57, Feb.

D.C. RESTORER, by "Cathode Ray," 8 Jan.
Decca Navigator, 93, Mar.
 — Stations, by M. G. Scroggie, 260, Aug.; (*News*), 296, Sept.
Defining Distortion (*Correspondence*), 99, Mar.
Deflector Coil Coupling, by W. T. Cocking, 360, Nov.
Design Data:
 1. Cathode Bias, 21, Jan.
 2. Wide-Band Amplifiers, 90, Mar.; (*Correction*), 240, July
 3. Wide-Band Amplifiers, 125, Apr.
 4. Wide-Band Amplifiers, 161, May
 5. Low-Frequency Correction Circuit, 199, June
 6. Differentiating Circuit, 231, July
 7. Video Amplifier H.F. Response, 307, Sept.
 8. Video Amplifier H.F. Response, 333, Oct.
 9. Video Amplifier H.F. Response, 413, Dec.
Disc Recording, B.B.C., by H. Davies, 14, Jan.
Dynatron Console Receiver, 209, June

Dynatron "Merlin" Radio Gramophone, 262 Aug.

EDITORIALS:

Amateur Transmitters, 35, Feb.
B.B.C. (Charter), 71, Mar.
 — and Government, 105, Apr.
 — Publications, 141, May
Broadcasting Policy, 245, Aug.
Control of Wireless, 1, Jan.
Engineers and Technical Assistants, 385, Dec.
F.M. versus A.M., 281, Sept.
Government Surplus Stocks, 1, Jan.
Gratitude to an Industry! 175, June
Guarantees, 281, Sept.
Illicit Transmission, 281, Sept.
Instruments on Show, 35, Feb.
Lessons from U.S.A., 105, Apr.
Lost Prestige, 71, Mar.
Over-limited Broadcast Licences, 315 Oct.
Radar Convention, 141, May
Radio Aids to Navigation, 211, July
Restrictive Licences, 351, Nov.
Servicing Technicians' Status, 35, Feb.
Television and the Cinema, 385, Dec.
 — Receiver Construction, 351, Nov.
Ekco A28 Receiver, 302, Sept.
 — TS 30 Television Receiver, 377, Nov.
Electrolytics, In Defence of (*Correspondence*), 28, Jan.
Electromagnetic Deflection, by W. T. Cocking, 217, July
 — Frame Scanning, by W. T. Cocking, 289, Sept.; (*Correction*), 349, Oct.
Empire Radio School, 365, Nov.
Engineers and Technical Assistants (*Editorial*), 385, Dec.; (*Correspondence*), 412, Dec.
Everett Edgcombe Valve Tester, 416, Dec.
Ex-R.A.F. Communication Receiver R1155, by "Ex-Signals" 212, July; (*Correspondence*), 278, Aug.; 412, Dec.
Exhibitions:
 — Physical Society (*Editorial*), 35, Feb.; (*Review*), 48, Feb.; (*Correction*), 78, Mar.; M.G. Scroggie, 47, Feb.
 — German Electronic Equipment, 87, Mar.; (*News*), 163, May
 — Radio Component Manufacturers' Federation, 106, Apr.
 — Society of British Aircraft Constructors, 366, Nov.
Export Trade (*Correspondence*), 63, Feb.
F.M. versus A.M. (*Editorial*), 281, Sept. (*Article*), 316, Oct.
Facsimile in U.S.A. (*News*), 296, Sept.
Faraday Medallist—Sir Edward Appleton (*News*), 86, Mar.
Ferranti A.C.D.C. Transportable, 329, Oct.
 — 146 Receiver, 358, Nov.
Frequency Allocations (*News*), 399, Dec.
 — Modulation Tests, 316, Oct.; (*Correspondence*), 412, Dec.
Fundamentals of Radar:
 4. Pulse Methods Applied to Navigation, 23, Jan.; (*Correction*), 65, Feb.

Fundamentals of Radar (continued)
5. Beacons Employing Pulse Technique, 55, Feb.
Furzehill Laboratories Electronic Watch Timer, 368, Nov.
Type 378A Valve Voltmeter, 323, Oct.

G.E.C. Industrial R.F. Heater, 320, Oct.
German Electronic Equipment, 163, May
Magnetophon (News), 53, Feb.
by R. A. Power, 195, June
Government Surplus Components (Editorials), 1, Jan.; 175, June; (Correspondence), 100, Mar.; 171, May; 241, July; 278, Aug.; 381, Nov.; (News), 86, Mar.; 117, Apr.; 160, May; 192, June
Gratitude to an Industry! (Editorial), 175, June; (Correspondence), 241, July; 278, Aug.; 381, Nov.
Guarantees: B.R.E.M.A. Proposals (Editorial), 281, Sept.

H.M.S. "Boxer," by G. M. Bennett, 324, Oct.
H.M.V. "Electrogram," 338, Oct.
Hearing Aid Earpiece, by C. M. R. Balbi, 179, June; (Correspondence), 241, July; 311, Sept.
Receivers, Multitone, 338, Oct.
Hiss Phenomenon, 29, Jan.; (Correspondence), 99, Mar.
Honours, New Year (News), 53, Feb.
Birthday (News), 229, July; 271, Aug.
Hum and Negative Feedback, by "Cathode Ray," 142, May

I.E.E.
Interference from Industrial Electronic Apparatus, Discussion, 198, June
Multi-Carrier V.H.F. System (News), 19, Jan.
Radar Convention (News), 53, Feb.; (Editorial), 141, May; Abstracts from Convention Papers, 146, May; 202, June
Scholarships, 145, May
Illicit Transmission (Editorial), 281, Sept.
Impregnated Windings (Correspondence), 312 Sept.; 345, Oct.
Increased Broadcast Licence Fees (News), 228, July
Industrial Electronics, B.T.H., 288, Sept.
Instrument Progress: Physical Society's Exhibition, by M. G. Scroggie, 47, Feb.
Interference from Industrial Electronic Apparatus, I.E.E. Discussion, 198, June
Is the B.B.C. Doing Its Job? by "Cata-ractacus," 96, Mar.

LESSONS from U.S.A. (Editorial), 106, Apr.
LETTERS TO THE EDITOR:
Alternath of Security, R. A. Gordon, 380, Nov.
Against V.H.F. Broadcasting, "Radio-phare," 412, Dec.
B.B.C. Finance, D. A. Bell, 136, Apr.
Transmitters, A. T. Drake, 203, June; H. Brodribb, 278, Aug.
B.R.E.M.A. Plan: Finnish Reaction, "Helsinki Reader," 27, Jan.
Biological Amplifiers, D. Robertson, 27, Jan.
Contrast Expansion, D. H. Parnum, 136, Apr.
Cracked Valves, C. W. Edmans, 27, Jan.
Crystal-Controlled Frequency Modulation, A. Treskinsky, 170, May
Defining Distortion, M. G. Scroggie, 99, Mar.
EX-R.A.F. 1155 Sets, M. C. Matthews, 278, Aug.; B. Hutchings, 412, Dec.
Export Trade, Mahmood, 63, Feb.
Hearing-Aid Phones, A. P. R. Mackie, 241, July; C. M. R. Balbi, 311, Sept.
In Defence of Electrolytics, J. C. Finlay, 28, Jan.
Marking Variable Condensers, G. Kirschner, 100, Mar.
Miller Integrator? M. G. Scroggie, 203, June; 381, Nov.; R. J. F. Howard, 311, Sept.
Phase Relationships, M. G. Scroggie, 170, May; J. H. Barrett, 171, May

Pick-up Construction Under Difficulties, G. M. Cattle, 84, Feb.
Pulse Terminology, W. A. Beatty, "Cathode Ray," 311, Sept.
Receiving Licences, G. O. Thacker, 345, Oct.
Shortage of Engineers? Thomas Roddam, 412, Dec.
Signals from the Sun, D. W. Heightman, 99, Mar.
Soldering v. Spot-Welding, R. Arbib, 137, Apr.; G. Austin, 203, June
Speaker Prices, C. L. Ager, 346, Oct.
Super-Regeneration, G. H. L. Thomas, 278, Aug.
Surplus Disposal, W. H. O. Banham, 100, Mar.
Components, D. A. Bell, 241, July; W. F. Taylor, 278, Aug.; H. Moran, 381, Nov.
Condensers, W. F. Taylor, 171, May
24-hour Clock, E. V. Wood, 28, Jan.
Telephone Recorders, D. W. Aldous, 203, June
Television V.F. Stage, H. Wood, 346, Oct.
Tone Correction, L. Gregory, 204, June
Too Many Recordings? R. W. Lowden, 137, Apr.; E. T. Knapp, 172, May
Tropicalizing, O. P. Scarff, 312, Sept.; R. Burkett, T. Williams, 345, Oct.
Valve Metalizing, A. Adcock, 203, June
Wartime Hangovers, "20 Signatures," 63, Feb.; A. A. Cotterell, 100, Mar.
Why Listeners Hate "Top," G. F. Redgrave, 242, July; L. J. Wignall, 278, Aug.
Why Pilot Lamps Burn Out, T. Roddam, 345, Oct.
"Lexington" Moving-Coil Pick-up, 250, Aug.
Licence Figures (News), 54, Feb.; 118, Apr.; 298, Sept.; 339, Oct.
Restrictions (Editorials), 315, Oct.; 351, Nov.; (Correspondence), 345, Oct.
Linear Saw-Tooth Oscillator, by W. T. Cocking, 176, June; (Correction), 383, Nov.
Londex Transmitter Relays, 259, Aug.
Lost Prestige (Editorial), 71, Mar.; (Correspondence), 380, Nov.
Loudspeaker Transients, 424, Dec.

IS OVERWORKED, by "Cathode Ray," 364, Nov.
Magnetophon, German (News), 53, Feb.; by R. A. Power, 195, June
Magnetrans, Cavity; I.E.E. Convention Papers, 146, May
Manufacturing Licences—Television Sets (News), 117, Apr.
Marine Loudspeaking Gear, Ardent "Loud Hailer," by P. Hickson, 254, Aug.
Navigation Radio Aids, 201, June
Marking Variable Condensers (Correspondence), 100, Mar.
Masteradio Receiver Model D110, 302, Sept.
Measuring Insulation Resistance, by J. Piggott, 263, Aug.
Interference, BS727, 204, June; (News), 296, Sept.
Mercantile Marine Radar, 269, Aug.
Merchant Navy Radar (News), 86, Mar.
Microphones, Mixing Crystal, by G. N. Patchett, 57, Feb.
Miller Integrator? (Correspondence), 203, June; 311, Sept.; 381, Nov.
Mine Detectors, 166, May
Miniature Spot-Welding Tools, by R. W. Hallows, 373, Nov.
Mixing Crystal Microphones, by G. N. Patchett, 57, Feb.
Morse Practice—R.S.G.B. Transmissions (News), 296, Sept.; 378, Nov.
Multi-Carrier V.H.F. System (News), 19, Jan.
Communication System, 59, Feb.
Multi-Channel Pulse Modulation, Army Set No. 10, 187, June; 282, Sept.
Murphy A104 Receiver: Test Report, 394, Dec.
Naval Communication Receiver, Type B41, 425, Dec.
Receiver U102, 169, May

N.P.L. Report, 262, Aug.
National Hearing Aid (News), 228, July
Navigational Aids, H.M.S. Fleetwood, 201, June
International Meeting (Editorial), 211, July
Radar, H.M.S. Polux, 89, Mar.
Negative Feedback, by "Cathode Ray"
1. Some of the Awkward Points Explained, 41, Feb.
2. Its Effect on Oplithum Load and on Distortion, 70, Mar.
Negative Feedback and Hum, by "Cathode Ray," 142, May
New Earpiece, by C. M. R. Balbi, 179, June; (Correspondence), 241, July; 311, Sept.
Sunspot Cycle, by T. W. Bennington, 83, Mar.
Zealand Amateurs (News), 378, Nov.
Noise and Pulse Modulation by Thomas Roddam, 327, Oct.
Factor-1, by L. A. Moxon, 391, Dec.
Limiters, by H. B. Dent, 397, Dec.

OBITUARY Notices: Baird, J. L., 228, July; 277, Aug.; Brailford, Raymond, 20, Jan.; Dennis, Col. M. J. C., 54, Feb.; Ellis, R. Milward, 159, Mar.; Gregory, Charles B., 87, Mar.; Grenfell, Grp. Capt. G. P., 54, Feb.; Kennedy-Purvis, Admiral Sir Charles, 230, July; Long, Dr. S. H., 193, June
Ohmmeter, Simple, by "Calibrator," 44, Feb.
Oscilloscope, Simple, by F. P. Williams, 206, June
Output Stage, by A. W. Stanley, 256, Aug.

P.I.C.A.O. Conference: Survey of Radio Aids, by M. G. Scroggie, 352, Nov.
(News), 339, Oct.
P.O. News in Morse (News), 86, Mar.
Research (News), 162, June
Parallel Standard Resistors, 396, Dec.
Peerless Communication Receiver, Model 1548, 396, Dec.
Phase Relationships by C. E. Cooper, 127, Apr.; (Correspondence), 170, May
Philco Television Receiver, 359, Nov.
Philips High-powered P.A. (News), 296, Sept.
Physical Society's Exhibition (Editorial), 35, Feb.; (Review), 48, Feb.; (Correction), 78; Mar.; Instrument Progress, by M. G. Scroggie, 47, Feb.
Pick-up Construction Under Difficulties (Correspondence), 64, Feb.
for Experimenters, E.M.I., 145, May
Pick-ups, New Moving-Coil, 123, Apr.
Picture Transmitter, Muirhead-Jarvis (News), 228, July
Pico Test Meter, 363, Nov.
Police Multi-Carrier Communication System, 59, Feb.
Portable Transmitting Licences (News), 296, Sept.
Post-War Components, 106, Apr.
Precision Radio Matériel (Johnson, Matthey), 279, Aug.
Printed Wiring (News), 376, Nov.
Propagation of Ultra-Short Waves: I.E.E. Convention Papers, 202, June
Pulse Circuits: I.E.E. Convention Papers, 156, May
Modulation, by "Cathode Ray," 113, Apr.; (Correspondence), 311, Sept.
Time Modulation, 45, Feb.
Pye Baby Q Portable (News), 270, Aug.
Mobile V.H.F. Gear, 368, Nov.
15A Receiver: Test Report, 12, Jan.
Television Model B161, Test Report, 403, Dec.

Q Code, R.S.G.B. Additions (News), 378, Nov.
Quality Amplifiers, 4, 8 and 12 watts, 2, Jan.; (Correction), 61, Feb.
Queen Elizabeth, Radio and Radar Gear, 357, Nov.

R 1155, Ex-R.A.F. Communication Receiver, by "Ex-Signals," 212, July; (Correspondence), 278, Aug.; 412, Dec.
R.A.P. 846 Receiver, 240, July
R.G.D. 1046G Auto-Radiogramophone, 225, July; Test Report, 330, Oct.
E.M.S. Queen Elizabeth, 357, Nov.
R.S.A. Marine Navigation Prize, 300, Sept.
R.S. Amplifiers, Type 12, 363, Nov.
R.S.G.B. Officers (News), 54, Feb.

Radar Aerial Systems: I.E.E. Convention Papers, 151, May
 — Cables, by E. W. Smith, 129, Apr.
 — Convention, I.E.E. (*Editorial*), 142, May
 — in Merchant Ships, by S. T. Allsop, 66, Feb.
 — in Nature, by Thomas Roddam, 286, Sept.
 — Technique: I.E.E. Convention Papers, 146, May
 — Transmitters and Receivers, I.E.E. Convention Papers, 154, May
 — Valve Developments, I.E.E. Convention Papers, 149, May
 Radio Australis, 306, Sept.
 — Control of Models, Frequency for (*News*), 159, May; 399, Dec.
 — Controlled Plough (*News*), 340, Oct.
 — Counter Measures, 18, Jan.
 — r. U-Boat, by G. M. Bennett, 408, Dec.
 Radiomobile Car Radio Set, 334, Oct.
 Radiophone to Ships (*News*), 376, Nov.
 RANDOM RADIATIONS, by "Diallist," 32, Jan.; 68, Feb.; 102, Mar.; 138, Apr.; 172, May; 208, June; 242, July; 274, Aug.; 308, Sept.; 348, Oct.; 382, Nov.; 427, Dec.
 Receiving Licence Figures (*News*), 54, Feb.; 118, Apr.; 298, Sept.; 339, Oct.
 RECENT INVENTIONS, 34, Jan.; 70, Feb.; 104, Mar.; 140, Apr.; 210, June; 244, July; 280, Aug.; 314, Sept.; 350, Oct.; 384, Nov.; 430, Dec.
 Resistors, Parallel Standard, 396, Dec.
 Romac Radio Personal Portable (*News*), 376, Nov.

SAW-TOOTH Oscillator, by W. T. Cocking, 176, June; (*Correction*), 383, Nov.
 Servicing Examination, R.T.E.B. and City & Guilds, (*News*), 296, Sept.
 — Technicians' Status (*Editorial*), 35, Feb.
 SHORT-WAVE CONDITIONS: by T. W. Beunington, 101, Mar.; 124, Apr.; 165, May; 207, June; 222, July; 273, Aug.; 309, Sept.; 347, Oct.; 359, Nov.; 393, Dec.
 Short-Wave Forecasting, by T. W. Beunington, 246, Aug.; 292, Sept.
 Signals from the Sun, 29, Jan.: (*Correspondence*), 99, Mar.
 "Silver Dragon" Quality Receiver, 381, Nov.
 Simple Ohmmeter, by "Calibrator," 44, Feb.
 — Oscilloscope, by F. P. Williams, 206, June
 — Valve Tester, by R. E. Hartkopf, 386, Dec.

Small Mains Transformers, by L. A. Sherwood, 30, Jan.
 Sobell Model 516 Receiver, 375, Nov.
 — Type 615 Receiver; Test Report, 226, July
 Soldering r. Spot Welding (*Correspondence*), 137, Apr.; 203, June
 Speaker Prices (*Correspondence*), 346, Oct.
 Stabilized Power Units, S. Szymanski and O. Dzierzynski, 304, Sept.
 Sunspot Cycle, New, by T. W. Beunington, 83, Mar.
 Super-Regenerative Receivers, by "Cathode Ray," 182, June; (*Correspondence*), 278, Aug.
 Surplus Components, Government (*Editorials*) 1, Jan.; 175, June; (*News*), 86, Mar.; 117, Apr.; 160, May; 192, June; (*Correspondence*), 100, Mar.; 171, May; 241, July; 278, Aug.; 381, Nov.

24-Hour Clock (*Correspondence*), 28, Jan.
 Technical Directive Board, R.I.C. (*News*), 399, Dec.
 Telecommunications Conference, Moscow (*News*), 339, Oct.; 399, Dec.
 Telephone Recorders (*Correspondence*), 203, June
 Television Advisory Committee (*News*), 19, Jan.
 — and the Cinema (*Editorial*), 385, Dec.
 — Psychology, by Paul Bellac, 40, Feb.
 — Preparations, B.B.C. (*News*), 87, Mar.
 — Radio Link (*News*), 376, Nov.
 — Receiver Construction (*Editorial*), 351, Nov.; 374, Nov.
 — Re-opening (*News*), 159, May
 — Signal Generator, E. K. Cole, 26, Jan.
 — Sound Rejection, by W. T. Cocking, 417, Dec.
 — V.F. Stage, by W. T. Cocking, 265, Aug.; (*Correspondence*), 346, Oct.
 Time Signals, G.P.O. (*News*), 53, Feb.
 Tone Control, Wide Range, by J. M. Hill, 422, Dec.
 — Correction (*Correspondence*), 204, June
 Too Many Recordings? (*Correspondence*), 137, Apr.; 172, May
 Transformers, Small Mains, by L. A. Sherwood, 30, Jan.
 Transistron-Type Time Base, by W. T. Cocking, 176, June; (*Correction*), 383, Nov.
 Travelling Wave Valve, by R. Kompfner, 369, Nov.
 Tropicalizing (*Correspondence*), 312, Sept.; 345, Oct.

U.H.F. Army Set No. 10, 282, Sept.

U.I.R. and O.I.R. (*News*), 270, Aug.
 — Checking Centre (*News*), 118, Apr.
 U.S.A. Broadcasting, by A. Dinsdale, 132, Apr.
 — Television Gear, 380, Nov.
 U.S.-British Commonwealth Telecommunications Conference (*News*), 117, Apr.
 UNBIASED, by Free Grid, 62, Feb.; 98, Mar.; 174, May; 205, June; 238, July; 276, Aug.; 344, Oct.; 426, Dec.

V.H.F. Communication Equipment, 180, June
 Vacuum-Seal Bushing, Ferranti, 46, Feb.
 Values, by "Cathode Ray," 335, Oct.
 Valve Developments: I.E.E. Convention Papers, 149, May
 — Metallizing (*Correspondence*), 203, June
 — Standardization, R.I.C. Paper, 230, July; B.V.A. Proposals, 375, Nov.
 — Tester, Simple, by R. E. Hartkopf, 386, Dec.
 — Travelling Wave, by R. Kompfner, 369, Nov.
 Ventilation Problems, by W. Tusting, 72, Mar.
 Video Amplifier H.F. Response:
 I. Shunt Corrector, 301, Sept.
 II. Series Corrector, 333, Oct.
 III. Mixed Series-Shunt Corrector, 413, Dec.
 Vidor "Chanson" Receiver, 273, Aug.
 — Miniature Superhet (*News*), 160, May
 Voltage Dropping in AC/DC Sets, 236, July

WAYNE Kerr Radio Frequency Bridge, 268, Aug.
 Wearite Ceramic Switches, 398, Dec.
 Wharfedale W10/CS, P.M. Loudspeaker, 326, Oct.
 What is Radar? by "Cathode Ray," 415, Dec.
 Why Listeners Hate "Top" (*Correspondence*), 242, July; 278, Aug.
 — Pilot Lamps Burn Out (*Correspondence*), 345, Oct.
 Wideband Amplifiers: Design Data, 90, Mar.; 125, Apr.; 161, May
 Wide Range Tone Control, by J. M. Hill, 422, Dec.
 Wireless Legislation (*Editorial*), 1, Jan.; (*Article*), 6, Jan.; (*Correspondence*), 63, Feb.; 100, Mar.
 WORLD OF WIRELESS, 19, Jan.; 53, Feb.; 86, Mar.; 117, Apr.; 159, May; 192, June; 228, July; 270, Aug.; 296, Sept.; 339, Oct.; 376, Nov.; 399, Dec.

CLASSIFIED INDEX

(All entries except Books, Illustrations and Authors also appear in the General Index.)

BOOKS

A.R.R.L. Handbook for 1946 (*Review*), 264, Aug.
 Active Nitrogen—A New Theory, by S. K. Mitra, 277, Aug.
 Alternating Current Measurements at Audio and Radio Frequencies, 2nd Edition, by David Owen (*Review*), 309, Sept.
 B.B.C. Year Book, 1946, 205, June
 Basic Mathematics for Radio Students, by F. M. Colebrook, 216, July
 Broadcasting Policy: White Paper, 245, Aug.
 Broadcasting Year Book, 1946, 332, Oct.
 Cathode-Ray Tube Handbook, by S. K. Lever, 100, Mar.
 Code of Practice for Valves (B.S. 1106) (*News*), 118, Apr.
 Electricians' Maintenance Manual, by W. E. Steward, 277, Aug.
 Electron Microscope, by D. Gabor (*Review*), 168, May
 4,000 Years of Television, by R. W. Hubbell, 332, Oct.
 Handbook of Technical Instruction for Wireless Telegraphists, H. M. Dowsett and L. E. Q. Walker, 285, Sept.
 Heaviside's Electric Circuit Theory, by H. J. Josephs, 382, Oct.
 Inside the Vacuum Tube, by John F. Rider, 277, Aug.
 Marconi's—A War Record, 421, Dec.

Miracle of Radio, by Miles Henslow (*News*), 86, Mar.
 Questions and Answers on Electric Lighting and Wiring, by E. Molloy, 332, Oct.
 Radar for Merchant Ships, Edited by L. S. Harley, 229, July
 Radar—Radiolocation Simply Explained, by R. W. Hallows (*News*), 192, June
 Radio Communications, by W. T. Perkins and R. W. Barton, 307, Sept.
 — Receiver Design, Part II, by K. R. Sturley (*Review*), 58, Feb.
 — Valve Vade Mecum, 1945, by P. H. Brans, 40, Feb.; 1946, 381, Nov.
 Receiver Specifications (*News*), 400, Dec.
 Short Wave Constructors' Manual, 375, Nov.
 Soul of Lodestone, by Alfred Still, 307, Sept.
 The Thin Red Lines, by Charles Graves, 332, Oct.
 To be an Engineer, by Lt.-Col. J. R. W. Murland (*Review*), 421, Dec.
 Transmitting Licence, R.S.G.B. Booklet (*News*), 270, Aug.
 Understanding Microwaves, by Victor J. Young, 332, Oct.
 Varnished Cloths for Electrical Insulation, by H. W. Chatfield and J. H. Wredde, 307, Sept.
 Whittaker's Electrical Engineers' Pocket Book, 332, Oct.

DESIGN

A.C./D.C. Voltage Dropping, 236, July
 Abacs for Filter Design (*Correction*), 31, Jan.
 Amplifiers, Quality, 4, 8 and 12 watt, 2, Jan.; (*Correction*), 61, Feb.
 Cathode-Follower Dangers, by W. T. Cocking, 79, Mar.
 Communication Receiver, Amateur, by H. B. Dent, 36, Feb.
 Contrast Expansion, by J. G. White, 120, Apr.; (*Correspondence*), 136, Apr.
 Deflector Coil Coupling, by W. T. Cocking, 360, Nov.
 Design Data:
 1. Cathode Bias, 21, Jan.
 2. Wide-Band Amplifiers, 90, Mar.; (*Correction*), 280, July
 3. Wide-Band Amplifiers, 125, Apr.
 4. Wide-Band Amplifiers, 161, May
 5. Low-Frequency Correction Circuit, 199, June
 6. Differentiating Circuit, 231, July
 7. Video Amplifier H.F. Response, 301, Sept.
 8. Video Amplifier H.F. Response, 333, Oct.
 9. Video Amplifier H.F. Response, 413, Dec.
 Electromagnetic Deflection, by W. T. Cocking, 217, July
 — Frame Scanning, by W. T. Cocking, 289, Sept.; (*Correction*), 349, Oct.

Linear Saw-Tooth Oscillator, by W. T. Cocking, 176, June; (*Correction*), 383, Nov.

Mains Transformers, Small, by L. A. Sherwood, 30, Jan.

Microphones, Mixing Crystal, by G. N. Patchett, 57, Feb.

Negative Feedback, by "Cathode Ray":

1. Some of the Awkward Points Explained, 41, Feb.
2. Its Effect on Optimum Load and on Distortion, 76, Mar.

Negative Feedback and Hum, by "Cathode Ray," 142, May

Noise Limiters, by H. B. Dent, 397, Dec.

Output Stage, by A. W. Stanley, 256, Aug.

Television V.F. Stage, by W. T. Cocking, 265, Aug.; (*Correspondence*), 346, Oct.

Tone Control, Wide Range, by J. M. Hill, 422, Dec.

— *Correction* (*Correspondence*), 204, June

Ventilation Problems, by W. Tusting, 72, Mar.

ELECTRONICS

B.T.-H., Industrial Electronics, 288, Sept.

Biological Amplifiers (*Correspondence*), 27, Jan.

Furzehill Laboratories Electronic Watch Timer, 368, Nov.

G.E.C. Industrial R.F. Heater, 320, Oct.

German Electronic Equipment, 163, May

Interference from Industrial Electronic Apparatus, I.E.E. Discussion, 198, June

Mine Detectors, 166, May

MANUFACTURERS' PRODUCTS

Allander Industries A4653 Receiver, 302, Sept.

All Power Transformers Television Test Generator (*News*), 271, Aug.

Ardente "Loud Hailer," 254, Aug.

B.T.-H. Industrial Electronics, 288, Sept.

Belmont Pocket Radio, 310, Sept.

Bourne Instrument Co. CDP Recorder, 275, Aug.

"Britain Can Make It" Exhibition, 342, Oct.

Broadcast Acoustic Equipment Co. Corner Deflector Baffles, 181, June

Bush EBS-84 Receiver, 178, June

Cinema-Television Mine Detector, 166, May

"Cintel" Metal Detector (*News*), 402, Dec.

"Coil" Pick-up, 123, Apr.

Component Manufacturers (List), 111, Apr.

Components Exhibition, 106, Apr.

Cosmocord New Earpiece, 179, June

Decca Navigator, 93, Mar.

Dynatron Console Receiver, 209, June

— Merlin Radio-Gramophone, 262, Aug.

E.M.J. Type 12 Pick-up, 145, May

Ekco A28 Receiver, 302, Sept.

— TSC30 Television Set (*News*), 377, Nov.

— Television Signal Generator, 26, Jan.

Everett Edgcombe Valve Tester, 416, Dec.

Ferranti A.C./D.C. Transportable, 329, Oct.

— 146 Receiver, 358, Nov.

— Vacuum-Seal Bushing, 46, Feb.

Furzehill Laboratories Electronic Watch Timer, 368, Nov.

— Type 378A Valve Voltmeter, 323, Oct.

G.E.C. Industrial R.F. Heater, 320, Oct.

— V.H.F. Communication Equipment, 180, June

H.M.V. "Electrogram," 338, Oct.

Henderson & Spalding: Printed Wiring, 376, Nov.

Johnson Matthey, Precision Radio Matériel 279, Aug.

"Lexington" Moving-Coil Pick-up, 250, Aug.

London Transmitter Relays, 259, Aug.

Masteradio D110 Receiver, 302, Sept.

Morton Cheyne "Silver Dragon" Receiver, 381, Nov.

Muirhead-Jarvis Picture Transmitter (*News*), 228, July

Multitone Hearing-Aid Receivers, 338, Oct.

Murphy A104 Receiver: Test Report, 394, Dec.

— Naval Communication Receiver, Type B41, 425, Dec.

— U102 Set, 169, May

Peerless Communications 1546 Receiver, 396, Dec.

Philco Television, 359, Nov.

Philips High-powered P.A. (*News*), 296, Sept.

Pifco Test Meter, 363, Nov.

Pye "Baby Q" Portable (*News*), 270, Aug.

— Mobile V.H.F. Gear, 368, Nov.

— 15A Receiver: Test Report, 12, Jan.

Pye Television Receiver B16T: Test Report, 403, Dec.

R.A.P. 846 Receiver, 240, July

R.G.D. 1046G Auto Radiogramophone, 225, July; Test Report, 330, Oct.

R.S. Amplifiers, Type 12, 363, Nov.

Radiomobile Car Radio Set, 334, Oct.

Romac Radio Personal Portable (*News*), 376, Nov.

Sobell Receiver 516, 375, Nov.

— Receiver 615: Test Report, 226, July

Szymanski and Dzierzynski Stabilized Power Units, 304, Sept.

"Valradio" Pick-up, 123, Apr.

Vidor Miniature Superhet (*News*), 160, May

— "Chanson" Receiver, 273, Aug.

Wayne Kerr Radio Frequency Bridge, 268, Aug.

Wearite Ceramic Switches, 398, Dec.

Wharfedale W10/CS P.M. Loudspeaker, 326, Oct.

MISCELLANEOUS

Aerials, by "Cathode Ray," 223, July; 251, Aug.

Aftermath of Security (*Correspondence*), 380, Nov.

Aids to Training, by M. G. Scroggie, 303, Sept.

Air Navigation, by M. G. Scroggie, 352, Nov.

Amateurs' Examination, City & Guilds, 295, Sept.

Aviation Radio Equipment, S.B.A.C. Exhibition, 366, Nov.; (*Addendum*), 429, Dec.

B.B.C. Publications (*Editorial*), 141, May

Brit. I.R.E. Coming-of-Age (*News*), 399, Dec.

Consol. by John E. Clegg, 233, July

Conventions and Viewpoints, by "Cathode Ray," 299, Sept.

Decca Navigator Stations, by M. G. Scroggie, 260, Aug.; (*News*), 296, Sept.

Defining Distortion (*Correspondence*), 99, Mar.

Electrolytics, In Defence of, (*Correspondence*), 28, Jan.

Engineers and Technical Assistants (*Editorial*), 385, Dec.; (*Correspondence*), 412, Dec.

Ex-R.A.F. Communication Receiver, R1155, by "Ex-Signals," 212, July; (*Correspondence*), 278, Aug.; 412, Dec.

Facsimile in U.S.A. (*News*), 296, Sept.

Faraday Medalist, Sir Edward Appleton (*News*), 86, Mar.

Gratitude to an Industry! (*Editorial*), 175, June; (*Correspondence*), 241, July; 278, Aug.; 381, Nov.

Guarantees: B.R.E.M.A. Proposals (*Editorial*), 281, Sept.

H.M.S. Boxer, by G. M. Bennett, 324, Oct.

Is the B.B.C. doing its Job? by "Cataractacus," 96, Mar.

Licence Figures (*News*), 54, Feb.; 118, Apr.; 298, Sept.; 339, Oct.

Lost Prestige (*Editorial*), 71, Mar.; (*Correspondence*), 380, Nov.

Loudspeaker Transients, 324, Dec.

μ is Overworked, by "Cathode Ray," 364, Nov.

Miller Integrator? (*Correspondence*), 203, June; 311, Sept.; 381, Nov.

Miniature Spot-Welding Tools, by R. W. Hallows, 373, Nov.

Morse Practice, R.S.G.B. Transmissions N.P.L. Report, 262, Aug.

Navigational Aids, H.M.S. Fleetwood, 201, June

Noise Factor—1., by L. A. Moxon, 391, Dec.

P.I.C.A.O. Conference, by M. G. Scroggie, 352, Nov.

Parallel Standard Resistors, 396, Dec.

Phase Relationships, by C. E. Cooper, 127, Apr.; (*Correspondence*), 170, May

Queen Elizabeth Radio and Radar Gear, 357, Nov.

R.S.A. Marine Navigation Prize, 300, Sept.

Radio-controlled Plough (*News*), 340, Oct.

Radio v. U-Boat, by G. M. Bennett, 408, Dec.

Servicing Technicians' Status (*Editorial*), 35, Feb.

Super-Regenerative Receivers, by "Cathode Ray," 182, June; (*Correspondence*), 278, Aug.

Values, by "Cathode Ray," 335, Oct.

MODULATION

Crystal-Controlled Frequency Modulation (*Correspondence*), 170, May.

F.M. versus A.M. (*Editorial*), 281, Sept. (*Article*), 316, Oct.

Frequency Modulation Tests, B.B.C., 316, Oct.; (*Correspondence*), 412, Dec.

Multi-Channel Pulse Modulation, Army Set No. 10, 187, June

Noise and Pulse Modulation, by Thomas Roddam, 327, Oct.

Pulse Modulation, by "Cathode Ray," 113, Apr.; (*Correspondence*), 311, Sept.

Pulse-Time Modulation, 46, Feb.

ORGANISATION

"Airmet" Broadcasts (*News*), 117, Apr.

Amateur Licences Re-issued, 13, Jan.

— Transmitters' Examination, 35, Feb.

— Transmitters' Examination, 139, Apr.

Army Broadcasting, Wavelengths, 414, Dec.

B.B.C. Accounts (*News*), 87, Mar.

— Charter (*Editorials*), 71, Mar.; 245, Aug.; (*Abstract*), 82, Mar.

— Renewed (*News*), 270, Aug.

— Finance (*Correspondence*), 136, Apr.

— and Government (*Editorial*), 105, Apr.

— Stations List (*News*), 399, Dec.

R.R.E.M.A. Report (*News*), 19, Jan.

— Wavelength Plan: Brit. I.R.E. Discussion, 22, Jan.; (*Correspondence*), 27, Jan.

Broadcasting Policy—Government White Paper (*Editorial*), 245, Aug.; (*News*), 270, Aug.

Control of Wireless (*Editorial*), 1, Jan.; (*Correspondence*), 63, Feb.; 100, Mar.

Export Trade (*Correspondence*), 63, Feb.

Frequency Allocations (*News*), 399, Dec.

Government Surplus Stocks (*Editorials*), 1, Jan.; 175, June; (*Correspondence*), 109, Mar.; 171, May; 241, July; 278, Aug.; 381, Nov.; (*News*), 86, Mar.; 117, Apr.; 160, May; 192, June

Lessons from U.S.A. (*Editorial*), 106, Apr.

Licence Fees, Increased Broadcast (*News*), 228, July

— Restrictions (*Editorials*), 315, Oct.; 351, Nov.; (*Correspondence*), 345, Oct.

Manufacturing Licences for Television sets (*News*), 117, Apr.

Merchant Navy Radar (*News*), 86, Mar.

Navigational Aids, International Meeting (*Editorial*), 212, July

P.I.C.A.O. Conference (*News*), 339, Oct.

Physical Society's Exhibition (*Editorial*), 35, Feb.

Portable Transmitters' Licences (*News*), 296, Sept.

Q Code, R.S.G.B. Additions (*News*), 378, Nov.

R.I.C. Technical Directive Board (*News*), 399, Dec.

R.S.G.B. Officers (*News*), 54, Feb.

Radio Control of Models (*News*), 159, May; 399, Dec.

Radiophone to Ships (*News*), 376, Nov.

Servicing Examination, R.T.E.B. and City & Guilds (*News*), 296, Sept.

Surplus Components (*Editorials*), 1, Jan.; 175, June; (*News*), 86, Mar.; 117, Apr.; 160, May; 192, June; (*Correspondence*), 100, Mar.; 171, May; 241, July; 278, Aug.; 381, Nov.

Telecommunications Conferences, Bermuda (*News*), 117, Apr.; Moscow (*News*), 339, Oct.; 399, Dec.

Television Advisory Committee Formed (*News*), 19, Jan.

Time Signals, G.P.O., (*News*), 53, Feb.

U.I.R. and O.I.R. (*News*), 270, Aug.

U.S.A. Broadcasting, by A. Dinsdale, 132, Apr.

Valve Standardization, R.I.C. Paper, 239, July; B.V.A. Proposals, 375, Nov.

Wireless Legislation, 6, Jan.

PROPAGATION

Short-Wave Conditions, by T. W. Bennington, 101, Mar.; 124, Apr.; 165, May; 207, June; 222, July; 273, Aug.; 309, Sept.; 347, Oct.; 369, Nov.; 393, Dec.

Short-Wave Forecasting, by T. W. Bennington, 246, Aug.; 292, Sept.

Signals from the Sun, 29, Jan.; (*Correspondence*), 99, Mar.

Sunspot Cycle, New, by T. W. Bennington, 83, Mar.

Ultra-Short Wave Propagation: I.E.E. Convention Papers, 202, June

RADAR

- Aerial Systems: I.E.E. Convention Papers, 151, May
Astronomical Radar, by Arthur C. Clarke, 321, Oct.
Cables, Radar, by E. W. Smith, 129, Apr.
Cavity Magnetrons: I.E.E. Convention Papers, 146, May
D.C. Restorer, by "Cathode Ray," 8, Jan.
Fundamentals of Radar:
4. Pulse Methods Applied to Navigation, 23, Jan.; (*Correction*), 65, Feb.
5. Beacons Employing Pulse Technique, 55, Feb.
Magnetrons, Cavity: I.E.E. Convention Papers, 146, May
Merchant Ships, Radar in, by S. T. Allsop, 66, Feb.
Metrovick MRL Radar Equipment, 269, Aug.
Navigational Radar, H.M.S. *Pollux*, 89, Mar.
Pulse Circuits: I.E.E. Convention Papers, 156, May
Radar Convention, I.E.E. (*Editorial*), 142, May
— in Nature, by Thomas Roddam, 286, Sept.
Radio Counter Measures, 18, Jan.
Transmitters and Receivers: I.E.E. Convention Papers, 154, May
Valve Developments: I.E.E. Convention Papers, 149, May
What is Radar? by "Cathode Ray," 415, Dec.

RECORDING

- Disc Recording, B.B.C., by H. Davies, 14, Jan.
Magnetophon, German, by R. A. Power, 195, June; (*News*), 53, Feb.
Telephone Recorders (*Correspondence*), 203, June
Too Many Recordings? (*Correspondence*), 137, Apr.; 172, May

SOUND REPRODUCTION

- Ardent "Loud Hailer," 254, Aug.
Cosmocord New Earpiece, by C. M. R. Balhi, 179, June; (*Correspondence*), 241, July; 311, Sept.
Multitone Hearing-Aid Receiver, 338, Oct.
National Hearing Aid (*News*), 228, July
Pick-up Construction under Difficulties (*Correspondence*), 64, Feb.
Why Listeners Hate "Top" (*Correspondence*), 242, July; 278, Aug.

TELEVISION

- B.B.C. Television Reopening (*News*), 159, May
D.C. Restorer, by "Cathode Ray," 8, Jan.
Detector Coil Coupling, by W. T. Cocking, 360, Nov.
Design Data: Video Amplifier H.F. Response, 301, Sept.; 333, Oct.; 413, Dec.
Electromagnetic Deflection, by W. T. Cocking, 217, July
— Frame Scanning, by W. T. Cocking, 289, Sept.; (*Correction*), 349, Oct.
Line Scanning Amplifier, by W. T. Cocking, 217, July
Manufacturing Licences for Television Sets (*News*), 117, Apr.
Pye Television Model B16T; Test Report, 403, Dec.
Television Advisory Committee Formed (*News*), 19, Jan.
— and the Cinema (*Editorial*), 385, Dec.
— Preparations, B.B.C. (*News*), 87, Mar.
— Psychology, by Paul Bellac, 40, Feb.
— Radio Link (*News*), 376, Nov.
— Receiver Construction (*Editorial*), 351, Nov.; (*Article*), 374, Nov.
— Sound Rejection, by W. T. Cocking, 417, Dec.

Television V.F. Stage, by W. T. Cocking, 265, Aug.; (*Correspondence*), 346, Oct.
U.S. Television Gear, 380, Nov.

TEST AND MEASUREMENT

- Avometer: Measuring Insulation Resistance, by J. Piggott, 263, Aug.
British Test Equipment, 306, Sept.
Everett Edgcombe Valve Tester, 416, Dec.
Furzehill Laboratories Type 378A Valve Voltmeter, 323, Oct.
Measuring Interference, B.S.727, 204, June; (*News*), 296, Sept.
Ohmmeter, A Simple, by "Calibrator," 44, Feb.
Oscilloscope, Simple, by F. P. Williams, 206, June
Physical Society's Exhibition (*Editorial*), 35, Feb.; (*Article*), 48, Feb.; (*Correction*), 78, Mar.
— Instrument Progress, by M. G. Scroggie, 47, Feb.
Valve Tester, Simple, by R. E. Hartkopf, 386, Dec.

TRANSMISSION

- G.E.C. V.H.F. Communication Equipment, 180, June
Illicit Transmission (*Editorial*), 281, Sept.
Multi-Carrier V.H.F. System (*News*), 19, Jan.
— Communication System, 59, Feb.

VALVES AND THERMIONICS

- American Service Valve Equivalents, List, 305, Sept.; (*Additions*), 383, Nov.
Magnetrons and Other Valve Developments I.E.E. Convention Papers, 146, May
Travelling Wave Valve, by R. Kompner, 369, Nov.
Valve Metallizing (*Correspondence*), 203, June
— Standardization, 239, July; 375, Nov.

ILLUSTRATIONS

- AERIALS on Aircraft Carrier H.M.S. *Ocean*, 145, May
Alexandra Palace Vision Transmitter Room, 87, Mar.
B.B.C. Experimental F.M. Transmitters, 96, Mar.; 316, Oct.
Baird, J. L., 277, Aug.
Brookmans Park Mast, 407, Dec.
DECCA Navigator Aerial, 260, Aug.
— Track Control Unit Indicator, 356, Nov.
Dorling, Vice-Admiral J. W. S., 118, Apr.
EUREKA Transponder Beacon, 56, Feb.
Experimental Flying Control Tower at R.A.E. Farnborough, 355, Nov.
FERRANTI, V. Z. de, 298, Sept.
Finch Facsimile Receiving Unit, 296, Sept.
GAMAGE, Leslie C., 193, June
Gee Cathode-Ray Tube Display, 25, Jan.
Goyder, C. W., 297, Sept.
HIGH-SPEED Electronic Keying Transmitter, Marconi's, 222, July
I.F.F. Airborne Equipment, 55, Feb.
MOUNTBATTEN, Admiral the Viscount, at the Brit. I.R.E. Coming-of-Age Dinner, 399, Dec.
N.B.C. Television Studio, 132, Apr.
PHOTOTELEGRAPHY, Cable & Wireless Picture Transmitter-Receivers, 86, Mar.

QUEEN ELIZABETH'S Main Control and Receiver Room, 339, Oct.
— Transmitting Room, 357, Nov.

- RADAR Marker Buoy, 119, Apr.
Radio Relay Towers for Western Union Micro-Wave Multiplex System, 19, Jan.
— Remote-Controlled Plough, 340, Oct.
Rickard, C. E., 54, Feb.
S.L.C. (Searchlight Control) Radar Aerials, 68, Feb.
T.C.C. Automatic Capacitor Tester, 75, Mar.
— Television Society's Exhibition, 378, Nov.
Television Aerial Arrays, Alexandra Palace, 118, Apr.
— O.B. Fleet, 401, Dec.
Tyrrell, S. J., 193, June
WALMSLEY, Dr. T., 297, Sept.

AUTHORS

- ALLSOP, S. T., 66, Feb.
BALHI, C. M. R., 179, June
Bellac, Paul, 40, Feb.
Bennett, G. M., 324, Oct.; 408, Dec.
Bennington, T. W., 83, Mar.; 124, Apr.; 165, May; 207, June; 222, July; 246, 273, Aug.; 292, 309, Sept.; 347, Oct.; 359, Nov.; 393, Dec.
"CALIBRATOR," 44, Feb.
"Cataractaeus," 96, Mar.
"Cathode Ray," 8, Jan.; 41, Feb.; 76, Mar.; 113, Apr.; 142, May; 182, June; 223, July; 251, Aug.; 299, Sept.; 335, Oct.; 364, Nov.; 415, Dec.
Clarke, Arthur C., 321, Oct.
Clegg, John E., 233, July
Cocking, W. T., 79, Mar.; 176, June; 217, July; 265, Aug.; 289, Sept.; 360, Nov.; 417, Dec.
Cooper, C. E., 127, Apr.
DAVIES, H., 14, Jan.
Dent, H. B., 36, Feb.; 397, Dec.
"Diallist," 32, Jan.; 68, Feb.; 102, Mar.; 138, Apr.; 172, May; 208, June; 242, July; 274, Aug.; 308, Sept.; 348, Oct.; 382, Nov.; 427, Dec.
Dinsdale, A., 132, Apr.
"EX-SIGNALS," 212, July
FREE GRID, 62, Feb.; 98, Mar.; 174, May; 205, June; 238, July; 276, Aug.; 344, Oct.; 426, Dec.
HALLOWS, R. W., 373, Nov.
Hartkopf, R. E., 386, Dec.
Hickson, P., 254, Aug.
Hill, J. M., 422, Dec.
KOMPFFNER, R., 369, Nov.
MONON, L. A., 391, Dec.
PATCHETT, G. N., 57, Feb.
Piggott, J., 263, Aug.
Power, R. A., 195, June
"RADIOPHARE," 239, July
Roddam, Thomas, 286, Sept.; 327, Oct.
SCROGGIE, M. G., 47, Feb.; 260, Aug.; 303, Sept.; 352, Nov.
Sherwood, L. A., 30, Jan.
Smith, Dr. E. W., 129, Apr.
Stanley, A. W., 256, Aug.
TUSTING, W., 72, Mar.
WHITE, J. G., 120, Apr.
Williams, F. P., 206, June