

# GENERAL INDEX

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 Aerials, Circuitry, Design, Electronics, Manufacturers' Products, Modulation, Organization, Propagation, Radiolocation, Sound Reproduction, Television, Test and Measurement, Transmission, Valves, Books and Publications, Illustrations and Authors. References to Authors, Books and Illustrations appear only in the Classified Index.

**A.C./D.C. Safety Circuitry (Correspondence)** 20 Jan., 59 Feb.  
**A.M.-F.M. Comparator**, 35 Jan.; (*Correspondence*) 59 Feb., 103 Mar.  
**A.P.A.E. Annual Exhibition (News)** 23 Jan., 148 Apr.; *Reports*, 255, 272 July  
*Officers Elected (News)* 271 July  
**Adhesive Resistors**, National Bureau of Standards, 70 Feb., 451 Nov.  
**Aerial Exchange**, Admiralty, 444 Nov.  
*Propaganda (Correspondence)* 146 Apr.  
*Terminology (Correspondence)* 269 July  
**Aerodynamic Approach Aid**, Simplified, 162 Apr.  
**Air Radio Developments**, S.B.A.C. Exhibition, 397 Oct.  
*Mechanics' Salaries (News)* 495 Dec.  
**Airfield Radar**, Corsor, 373 Sept.  
**Airnet**, Hope for? (*Correspondence*) 20 Jan., "All-Dry" Signal Tracer, by E. J. Faulkner, 487 Dec.  
**All-Wave Aerial**, Antiference, 373 Sept.  
**Aluminium Joining (Correspondence)** 59 Feb.  
**Amateur Licence Changes (News)** 311 Aug.  
*Radio Show*, R.S.G.B., 13 Jan.  
*Recordings (News)* 270 July  
*Television Progress*, by M. Barlow, 371 Sept.  
*Transmitting: Radio Indiscipline (Correspondence)* 146 Apr.  
*21-Mc/s Band (News)* 495 Dec.  
**Wavebands Altered (News)** 270 July  
**Amateurs at Sea—Wavelengths (News)** 189 May  
**American and Canadian Convention (News)** 416 Oct.  
*I.R.E. Membership (News)* 313 Aug.  
**Amplifier Modifications**, High-Quality, by D. T. N. Williamson, 173 May  
*Single-Ended Push-Pull*, 203 May  
**Amplifiers and Superlatives**, by D. T. N. Williamson and P. J. Walker, 357 Sept.  
*Dielectric*, 60 Feb.  
**Anglo-French Television (News)** 270 July  
**Anglo-U.S. Scholarships (News)** 147 Apr.  
**Army Communications**, S.R.D.E., 353 Sept.  
*Emergency Reserve*, 503 Dec.  
**Ashbridge**, Sir Noel, Retirement, 326 Aug.  
**Association of Professional Recording Studios**, 12 Jan.; (*News*) 313 Aug.  
**Australian Television Postponed (News)** 191 May  
**Automatic Broadcasting**, by R. W. Leslie and C. Gunn-Russell, 449 Nov.

## B.B.C.

Anglo-French Television (*News*) 270 July  
 Annual Report (*Editorial*) 439 Nov.  
**Automatic Daventry 3rd Programme Transmitter**, by R. W. Leslie and C. Gunn-Russell, 449 Nov.  
**Broadcasting Coverage (Correspondence)** 146 Apr.  
*White-Paper Debate (Editorials)* 249 July, 479, Dec.  
**Caravan Transmitter**, Devon (*News*) 191 May  
**Engineering Appointments (News)** 312 Aug.  
**Guardians of our Jargon (Editorial)** 249 July  
**Isle of Wight Television Site (News)** 63 Feb.  
**Kirk o'Shotts High-Power Television Transmitter Operating (News)** 364 Sept.  
**Low-Level Modulation**, Wenvoe and Kirk o'Shotts Transmitters, 512 Dec.  
**Maida Vale Orchestral Studio**, by T. Somerville and H. R. Humphreys, 128 Apr.  
**Manchester-Kirk o'Shotts Television Link**, 170 May  
**Millionth Television Licence (News)** 21 Jan.  
**New Appointments (News)** 230 June  
*Charter (Editorials)* 1 Jan., 291 Aug.; (*News*) 21 Jan.; *Note*, 304 Aug.  
*London Television Transmitter (News)* 459 Nov.  
*Television Stations (News)* 147 Apr.

## B.B.C.

Scarborough and Folkestone Stations (*News*) 23 Jan.  
**Schools Television Experiment (News)** 147 Apr.; (*Editorial*) 209 June; (*Correspondence*) 309 Aug.  
**Sir Noel Ashbridge's Retirement**, 326 Aug.  
**Television Advisory Committee (Editorials)** 291 Aug., 439 Nov., 479 Dec.  
*from Paris*, 298 Aug.  
*Stations Progress (News)* 21 Jan.  
**V.H.F., A Promise? (News)** 189 May  
*Broadcasting*, 10 Jan.  
**Welsh Television Opening (News)** 229 June  
**Wrotham Schedule Changes (News)** 416 Oct.  
**B.R.E.M.A. Council Elected (News)** 150 Apr.  
**B.S.R.A.**  
 Annual Convention, 284 July  
 Exhibition (*News*) 189 May; *Survey*, 255 July  
 Gramophone Motors, Discussion, 135 Apr.  
**Hot Stylus Technique**, Paper, 50 Feb.; (*Correspondence*) 145 Apr., 227 June  
**Recording Characteristics**, President's Inaugural Address, 448 Nov.  
**What is a Recording Characteristic?** Paper, 178 May  
**B.T.H. Engineering Research Fellowships (News)** 313 Aug.  
*Research*, Booklet, 57 Feb.  
**Baird Plaque Erected (News)** 231 June  
**Band-Pass Converter**, 21-Mc/s, 267 July  
**Bankers' Television**, 379 Sept.  
**Beats**, by "Cathode Ray", 452 Nov.  
**Boundary Displacement Magnetic Recording**, 218 June  
**Brit. I.R.E.**  
 Brit. I.R.E. in India (*News*) 231 June  
 Premiums Awarded (*News*) 416 Oct.  
 President's Inaugural Address (*News*) 459 Nov.  
 Royal Patronage Granted (*News*) 313 Aug.  
**British Television Technique**, I.E.E. Convention, 209, 210, 212 June  
**British Wireless Dinner Club (News)** 231 June  
**Broadcasting Coverage (Correspondence)** 146 Apr.  
**Bus-Bell Interference**, 511 Dec.  
**Business Radio**, 116 Mar.

## C.B.C. FINANCE (News) 23 Jan.

Cabin Broadcast Set, Rees Mace, 475 Nov.  
**Cable Termination**, Telcon Corundite, 12 Jan.  
**Calculating Transient Response**, by Thomas Roddam, 292 Aug.  
**Canadian Television (News)** 313 Aug., 417 Oct.  
**Capacitance**, Units of (*Correspondence*) 19 Jan., 187 May, 355 Sept., 420 Oct.  
**Capacitors**, Jackson Split-Stator, 474 Nov.  
*Philips Miniature Wire*, 202 May  
*R.F. Characteristics of*, by R. Davidson, 301 Aug.; (*Correspondence*) 419 Oct., 457 Nov.  
**Car Radio Units**, H.M.V., 37 Jan.  
**Cathode Life**, Oxide, I.E.E. Paper, 76 Feb.  
**Centimetre-Wave Television Relay**, 170 May  
**Charter for B.B.C. News (Editorials)** 1 Jan., 291 Aug.; (*News*) 21 Jan.; *Note*, 304 Aug.;  
**Cinema Television (News)** 311 Aug.  
**City & Guilds Exam Results (News)** 460 Nov.;  
*Insignia Award (News)* 495 Dec.  
**Clapp and other Oscillator Circuits: Series or Parallel?** by "Cathode Ray", 321 Aug.  
**Clarostat Components**, A.B. Agency (*News*) 460 Nov.  
**Coaxial Outlet Box**, Wolsey Television, 245 June  
*Relay*, Londex, 123 Mar.  
**Coils**, Denco Miniature Dual Purpose, 474 Nov.  
*Osmor Miniature*, 79 Feb.  
**Colour Coding for Drills (Correspondence)** 187 May  
*Resistor (Correspondence)* 103 Mar., 227 June, 269 July, 355 Sept.  
**Television**, U.S.A. (*News*) 22 Jan.

Commercial Broadcasting, 401 Oct.  
**Communication Theory Symposium**, 445 Nov.  
**Communications and Modern Flying (Editorial)** 383 Oct.  
*Receiver*, Eddystone 680X, 245 June  
**Complaints Box (Correspondence)** 269 July  
**Component Colour Coding**, by D. F. Urquhart, 193 May  
**Converter**, Spencer-West Television-Frequency, 287 July  
*21-Mc/s Band-Pass*, 267 July  
**Corona Stabilizer**, Nuclonic & Radiological Developments, 123 Mar.  
**Crackle-Finish Enamel**, Miller, 475 Nov.  
**Crystal Oscillators**, Series-Mode, by H. B. Dent, 275 July  
*Pick-up*, Chancery Precision Instruments, 525 Dec.  
*Valves*, Germanium, by T. H. Kinman, 29 Jan.  
**Cybernetics: Physiological Feedbacks**, by T. E. Ivall, 137 Apr.

**DECADE Multivibrator Design**, by J. E. Attew, 114 Mar.  
**Decca Navigator Coverage Extended**, 338 Sept.  
**Decimetre-Wave Propagation**, by E. G. Hamer, 51 Feb.  
**Deflector-Coil Construction**, by W. T. Cocking, 480 Dec.  
**Delta Modulation**, I.E.E. Symposium Paper, 427 Oct.  
**Dielectric Amplifiers**, 60 Feb.  
**Drying Out Transformers**, by J. MacIntosh, 523 Dec.  
**Duals**, by "Cathode Ray", 152 Apr.  
**Duplicating Tape Recordings**, by Donald W. Aldous, 320 Aug.

**E.H.T. Voltage Indicator**, Waveforms Ltd., 37 Jan.  
**E.M.I. Institutes**, 11 Jan.  
*Microgroove Records (News)* 232 June, 417 Oct.  
**Earls Court Television Distribution (Correspondence)** 19 Jan.  
**Echo Fishing—'Fischlupe'**, 195 May  
**Economical Metering**, by H. B. Dent, 112 Mar.

## EDITORIALS:

Castles in the Air, 291 Aug.  
**For Services Rendered—Awards to Inventors**, 83 Mar.  
**Geneva Conference**, 41 Feb.  
**Guardians of our Jargon**, 249 July; (*Correspondence*) 356 Sept.  
**Harbour Radiophones**, 127 Apr.  
**Keeping up with the Comet**, 383 Oct.  
**More Reliable Valves**, 83 Mar.  
**Queer Committee**, 479 Dec.  
**Radio Politics**, 1 Jan.  
**Reflections on the Show**, 383 Oct.  
**Restrictive Practices**, 209 June; (*Correspondence*) 309 Aug.  
**Revolution in Broadcasting**, 439 Nov.  
**Showing the Public**, 333 Sept.  
**Standardization of Components**, 169 May  
**Standardizing Television I.F.** 41 Feb.; (*Correspondence*) 145 Apr., 228 June  
**Tax on Progress**, 333 Sept.  
**Telegraph Tempo**, 127 Apr.; (*Correspondence*) 188 May  
**Television on Parade: I.E.E. Convention**, 209 June  
**The Heart of our Affairs**, 333 Sept.  
**Wireless in Westminster**, 249 July  
**Educational Filmstrip—Story of Television**, 140 Apr.  
**Electro-encephalographic Techniques**, 72 Feb.  
**Electron-Coupled Oscillators**, by "Cathode Ray", 515 Dec.  
**Electronic Apprenticeships**, Ministry of Supply, (*News*) 459 Nov.  
*Film, High Definition Films (News)* 231 June  
*Noughts and Crosses (Correspondence)* 269 July  
*Organ*, 370 Sept.  
**Stethoscope**, Leland, 525 Dec.  
**Switching**, by E. A. R. Peddle, 421 Oct., 465 Nov.  
**Encroaching Transmitters**, 263 July  
**Energy**, by "Cathode Ray", 31 Jan.; (*Correspondence*) 103 Mar.; *Correction*, 122 Mar.

ization, by "Cathode Ray", 65 Feb.  
 Circuits, Technograph, 488 Dec.

**EXHIBITIONS:**  
 Association of Public Address Engineers (News) 23 Jan., 148 Apr.; B.I.F. 1952 (News) 190 May, 1953, 496 Dec.; B.S.R.A. and A.P.A.E. Reports, 255, 272 July, 364 Sept.; British Instrument Industries 1953 (News) 271 July; British Plastics Exhibition and Convention 1953 (News) 496 Dec.; German Communication and Transport Exhibition (News) 496 Dec.; Ideal Home (News) 496 Dec.; Indian (News) 23 Jan.; Mechanical Handling, 329 Aug.; Model Engineer, 231 June, 418 Oct., 489 Dec.; National Radio Exhibition, 1952, (News) 147 Apr., 189 May, 311 Aug.; (Editorials) 333 Sept., 383 Oct.; Guide to Exhibits, 343 Sept.; Review, 384 Oct.; Attendance (News) 416 Oct.; 1953 Exhibition (News) 496 Dec.; Northern Radio Show (News) 147 Apr.; Exhibitors, 164 Apr.; Note, 205 May; Attendance (News) 229 June; Physical Society (News) 62 Feb., 147 Apr.; Survey, 183 May; R.E.C.M.F., (News) 147 Apr.; Survey 179 May; 1953 Exhibition (News) 229 June; R.S.G.B. 1951, Survey, 13 Jan.; 1952 (News) 232 June, 364 Sept.; S.B.A.C. 397 Oct.; Television Society, 1952, 45 Feb.; 1953 (News) 495 Dec.

Experimenter's R.F. Bridge, by H. V. Sims, 196 May

Extra-Terrestrial Noise—Frequency Allocations (News) 21 Jan.

**F. M. FEEDER** Unit, by S. W. Amos and G. G. Johnstone, 334 Sept., 428 Oct.

F.M. in Germany, 141 Apr.

F.M. or A.M. for Marine Services? (News) 229 June

— Receiver Modification, by J. G. Spencer, 204 May

Faulty Interlacing, by G. N. Patchett, 250 July, 315 Aug.; (Correspondence) 420 Oct., 457 Nov.

5-Watt V.H.F. Transmitter, Pye, 370 Sept.

Fischupe—Echo Fishing, 195 May

Flat Television—Magnifier, by N. A. de Bruyne, 502 Dec.

Flax, Enthoven 'Telecine', 37 Jan.

Formulas, 'Duals', by "Cathode Ray", 152 Apr.

40-Mc/s Radiophone, by J. B. Lovell Foot, 132 Apr.

French Colour Television Plans (News) 313 Aug.

Frequency Allocations, Geneva Conference (News) 21 Jan.; (Editorial) 41 Feb.; Article, 61 Feb.

— Division by Multivibrators, by J. E. Attew, 114 Mar.

— Response Measurements (Correspondence) 269 July, 356 Sept.

**GAS SWITCHING** Tubes, by E. A. R. Peddle, 421 Oct., 465 Nov.

Generator, Simple Square-Wave, by L. F. Sinfield, 285 July

Geneva Conference (News) 21 Jan.; (Editorial) 41 Feb.; Article, 61 Feb.

German Patents (News) 364 Sept.

Germanium Crystal Valves, by T. H. Kinman, 29 Jan.

Germany, F.M. in, 141 Apr.

Great Radio Telescope, 238 June

Greenland Expedition (Correspondence) 310 Aug.

**H. T. POWER** Pack, Variable, by A. H. B. Walker, 374 Sept.

Harbour Radiophones (Editorial) 127 Apr.

Hearing Aid, Redesigned Medresco, 177 May; (Correspondence) 310 Aug.

High-Quality Amplifier Modifications, by D. T. N. Williamson, 173 May

High-Tension Delay Circuit, by D. Clements, 163 Apr.

Humours, Birthday, (News) 370 July, 313 Aug.

Hot Stylus Recording Technique, B.S.R.A. Lecture, 50 Feb.; (Correspondence) 145 Apr., 227 June

How to Choose a Valve, by Thomas Roddam, 499 Oct.

Hum in Pickup Transformers, Avoiding, (Correspondence) 103 Mar.

**I.E.E.**  
 Council Elected (News) 364 Sept.  
 Electric Wiring Regulations, 140 Apr.

**I.E.E.** Is Information Theory of any Practical (Cond.) Use? Discussion, 71 Feb.

Mechanism of Magnetic Recording, Lecture, 47 Feb.

Oxide Cathode Life, Lecture, 76 Feb.

Premiums (News) 312 Aug.

Radio-Controlled Models, Lecture, 176 May

— Committee Elected (News) 364 Sept.

Radio Section Membership (News) 271 July

Television Convention (News) 21 Jan., 101 Mar., 147 Apr.; (Editorial) 209 June; Summary of Papers 210, 212 June

I.F. for Television Receivers (Editorial) 41 Feb.; (Correspondence) 145 Apr., 228 June

— Inquiry by E.B.U. (Correspondence) 493 Dec.

— Interference (Correspondence) 59 Feb., 103 Mar.

India, Radio Manufacture in, by John A. Howie, 159 Apr.

Information Theory, by "Cathode Ray", 365 Sept.

— Delta Modulation, 427 Oct.

— I.E.E. Discussion, 71 Feb.

— Symposium (News) 271 July; (Editorial) 333 Sept.; Summary, 445 Nov.

Institute of Navigation Membership (News) 496 Dec.

— of Physics Annual Report (News) 364 Sept.

Institution of Electronics (Correspondence) 458 Nov.

Interference, Bus-Bell, 511 Dec.

— Suppression: Small Electric Motors (News) 189 May

— Suppressor, E.M.I. All-Wave, 245 June

Interlacing, Faulty, by G. N. Patchett, 250 July, 315 Aug.; (Correspondence) 420 Oct., 457 Nov.

International Broadcasting (Correspondence) 356 Sept.

— Exchange of Students, I.A.E.S.T.E., 122 Mar., 527 Dec.

— Television Committee (News) 147 Apr.

— Standards, 296 Aug.

Ionic Loudspeaker (without diaphragm), 2 Jan.

Ionosphere Review: 1951, by T. W. Bennington, 121 Mar.

Ionospheric Winds, 188 May; Correction (News) 232 June; (Correspondence) 269 July

**JARGON**, Guardians of Our, (Editorial) 249 July; (Correspondence) 356 Sept.

Jointing Aluminium (Correspondence) 59 Feb.

**L/C RATIO**, by "Cathode Ray", 412 Oct.

**LETTERS TO THE EDITOR:**  
 Aerial Ambiguities, James Franklin, 269 July

— Propaganda, A. G. Clarke, 146 Apr.

Avoiding Hum in Pickup Transformers, S. Heath, 103 Mar.

Broadcasting Coverage, P. A. Coombes, 146 Apr.

Colour Coding (Drills), L. W. Gentry, 187 May

Complaints Box, J. W. Shilvok, 269 July

Critique of (Resistor) Colour Coding, L. G. Woollett, 103 Mar.; R. V. Goode, P. G. Skane, 227 June; R. Krummick, 269 July; P. G. A. H. Voigt, 355 Sept.

Earls Court Television, R. W. Addie, 19 Jan.

Electronic Noughts and Crosses, E. M. McCormick, 269 July

Encouraging Morse Operators, Wm. A. Richardson, 420 Oct.; Raymond M. Evans, 458 Nov.; D. W. J. Haylock, 493 Dec.

Exiled Radio Engineers, John Doe, 493 Dec.

Faulty Interlacing, J. E. Attew, R. V. Sharnan, 420 Oct.; W. T. Cocking, 457 Nov.

Frequency Response Measurements, Henry Morgan, 269 July; G. A. Briggs, 356 Sept.

Greenland Expedition, R. A. Hamilton, 310 Aug.

Hope for Airmet? G. F. Johnson, 20 Jan.

Hot Stylus Technique, Donald W. Aldous, 145 Apr.; E. R. Wallwork, Henry Morgan, M. C. Phillip, 227 June.

**I. F. Inquiry**, G. H. Russell, 493 Dec.

Letters to the Editor (contd.)

I.F. Interference, Richard J. Donald, 59 Feb.; H. S. Chadwick, 103 Mar.

Institution of Electronics, Derek J. Swadkin, 458 Nov.

Ionosphere and the Weather, B. S. T. Wallace, 269 July

Ionospheric History, C. G. McCue, 187 May

Jargon, Robert Briggs-Bury, 356 Sept.

Jointing Aluminium, P. A. Raine, 59 Feb.

Modifying 'Surplus' Meters, R. J. Ellis, 20 Jan.

"Odd" Resistors, E. N. Meakin, 187 May

Oval Spot? A. S. Torrance, 20 Jan.; C.E.S.R., 187 May; H. T. Pichal, 228 June

Phase-Angle Ellipse, H. Sutcliffe, 458 Nov.

Phonetic Alphabets, L. E. Moorat, 59 Feb.

Pre-recorded, R. P. Truman, 269 July; Charles P. Sloan, 356 Sept.

Pulse Testing, E. A. F. Moss, 146 Apr.

R. F. Characteristics of Capacitors, Frank Dellow, 419 Oct.; T. E. Clarke, 457 Nov.

Radio Indiscipline, W. A. Richardson, 146 Apr.

Radio's Responsibilities, James Franklin, 60 Feb.

Redesigned Government Hearing Aid, C. J. Cameron, 310 Aug.

Restrictive Practices, C. R. Hughes, 309 Aug.

Safer A.C./D.C. Sets, C. E. Thorn, 20 Jan.; W. Tusting, 59 Feb.

Short Weight in Energy? S. Yarrow, 103 Mar.

Standardizing Television I.F., S. E. Allchurch, 145 Apr.; H. S. Chadwick, 228 June

Telegraph Tempo, E. M. Glasscock, 188 May

Television Bandwidth, W. Maclanachan, 420 Oct.; F. C. McLean, 457 Nov.

— Ghosts, K. W. King, F. R. W. Stratford, 145 Apr.

Thorn Needles, Bernard Driver, 309 Aug.

Tinning Litz Wire, F. Turton, 20 Jan.

Too Many Recording Characteristics? Ruth Jackson, 309 Aug., 419 Oct.; R. Marker, Henry Morgan, 355 Sept.; C. J. LeBel, 419 Oct.; J. M. Little, 493 Dec.

Towards International Broadcasting, C. L. Zaalberg, 356 Sept.

"Trustworthy" Valves, Robert C. Bell, 146 Apr.

Two-triode R.F.? Douglas A. Finch, 19 Jan.

Units of Capacitance, V. Mayes, E. McEwan Reid, 19 Jan.; E. J. F. Therens, 187 May; M. G. Scroggie, 355 Sept.; James Nicol, 420 Oct.

Universal Meter Shunt, T. H. Francis, 19 Jan.

V.H.F. Broadcasting, D. W. Heightman, 309 Aug.; C. van Cott, 419 Oct.; Peter Dean, 493 Dec.

Valve Voltmeter without Calibration Drift, M. G. Scroggie, 146 Apr., 310 Aug.

What is a Thermostat? A. E. Durrington, 356 Sept.

Why 47? F. M. Speechley, 146 Apr.

Licences, 21 Jan., 63 Feb., 102 Mar., 191 May, 231 June, 271 July, 313 Aug., 364 Sept., 417 Oct., 460 Nov., 496 Dec.

Lighthouse Radio Beacons (News) 229 June

Line Eliminator, by G. N. Patchett, 219 June

Line-scan Circuit, Simple, by W. T. Cocking, 305 Aug.

Litz Wire, Tinning, (Correspondence) 20 Jan.

Locating Television Pirates, 104 Mar.

Loop Aerial Reception, by G. Bramsley, 469 Nov.

Loudspeaker, 'Bonnie' Baffle, 37 Jan.

— Metal Cone, by F. H. Brittain, 440 Nov., 490 Dec.

— Purchase Tax (Editorial) 333 Sept.; (News) 362 Sept., 416 Oct.

— Response Curves, 58 Feb.

— without Diaphragm, 2 Jan.

Low-Level Modulation, Wenvoe and Kirk o'Shotts Transmitters, 512 Dec.

**MAGNETIC** Coating Compound, Minnesota Mining and Manfg. Co., 79 Feb.

— Recording, Boundary - Displacement, 218 June

— E.B.U. Conference (News) 460 Nov.



Bryne, 502 Dec.  
 Marconi Plaque (News) 147 Apr. 231 June  
 Marine A.M. or F.M.? (News) 229 June  
 — Radio: International Convention, 277 July  
 Mass Producing Valve Bulbs, 278 July  
 Measuring High Resistance, by M. G. Scroggie, 236 June  
 Mechanism of Magnetic Recording, I.E.E. Lecture, 47 Feb.  
 "Medresco," Redesignated Government Hearing Aid, 177 May (Correspondence) 310 Aug.  
 Metal Cone Loudspeaker, by F. H. Brittain, 440 Nov., 490 Dec.  
 Meter Slumt, Universal, (Correspondence) 19 Jan.  
 Metering, Economical, by H. B. Dent, 112 Mar.  
 Micro Switches, Bulglin, 506 Dec.  
 Microgroove Records, E.M.I. Statements (News) 232 June, 417 Oct.  
 Microphony in Superhet Oscillators, by H. Stibbe, 504 Dec.  
 Millionth Television Licence (News) 21 Jan. Miniature Coils, Osrom, 79 Feb.  
 — Earphone, Ampilvox, 165 Apr.  
 — Valves, Mullard, 494 Dec.  
 Modifying "Surplus" Meters (Correspondence) 20 Jan.  
 More Reliable Valves (Editorial) 83 Mar.; Article, by E. G. Rowe, 105 Mar.; (Correspondence) 146 Apr.  
 Morse Operating, Encouraging, (Correspondence) 420 Oct., 458 Nov., 493 Dec.  
 Mullard Educational Service, 151 Apr.  
 Multivibrator Design, Decade, by J. E. Attew, 114 Mar.  
**NANOFARAD**, The, (Correspondence) 19 Jan., 187 May, 355 Sept., 420 Oct.  
 National Radio Exhibition 1952 (News) 147 Apr., 189 May, 311 Aug.; (Editorials) 333 Sept., 383 Oct.; Guide, 343 Sept.; Review, 384 Oct.; Attendance (News) 416 Oct.; 1953 (News) 496 Dec.  
 Negative Feedback Tone Control, by P. J. Baxandall, 402 Oct.; Correction, 444 Nov.  
 News in Morse, Schedule (News) 101 Mar.  
 "No Compromise" R.F. Tuner, by W. Winder, 406 Oct.  
 Noise, by "Cathode Ray", 199 May, 222 June  
 Noise Limiters for Television Sound, by R. T. Lovelock, 339 Sept.  
**OBITUARY**: Flewelling, Edmund T., 149 Apr.; Green, Dr. A. L., 23 Jan.; Honan, J. J., 496 Dec.; McMichael, Leslie, 22 Jan., Marley, Lord, 149 Apr.; Pacent, Louis, 313 Aug.  
 Orchestral Studio Design, by T. Somerville and H. R. Humphreys, 128 Apr.  
 Origins of Radar, 95 Mar.  
 Oscillator Circuits, Series or Parallel? by "Cathode Ray", 321 Aug.  
 —, Two-range Test, by H. B. Dent, 508 Dec.  
 Oscillators, Electron-Coupled, by "Cathode Ray", 515 Dec.  
 Oscilloscope, Phase-angle Ellipse on Cathode-ray, 432 Oct.; (Correspondence) 458 Nov.  
 —, Television, by W. Tusting, 233 June, 280 July; Correction (News) 364 Sept.  
 Oval Spot? (Correspondence) 20 Jan., 187 May, 228 June  
 Oxide Cathode Life, I.E.E. Lecture, 76 Feb.  
**P.V.C. WIRES**, Tenaplas Two Colour, 111 Mar.  
 Panel-Marking Transfers, Alexander Equipment, 320 Aug.  
 Patent Office Library—Opening Times (News) 191 May  
**PERSONALITIES**: Amos, S. W., 363 Sept.; Appleton, Sir Edward, 101 Mar., 362 Sept., 417 Oct.; Ashbridge, Sir Noel, 326 Aug., 459 Nov.; Atherton, L., 496 Dec.; Axon, F., 230 June; Baker, H. W., 230 June; Balcombe, E. K., 148 Apr.; Bangay, Raymond D., 229 June; Baxandall, Peter, J., 417 Oct.; Bedford, L. H., 417 Oct.; Bennington, T. W., 22 Jan.; Bishop, Harold, 312 Aug.; Bowen, H. L., 496 Dec.; Bowen, H. W., 417 Oct.; Branslev, G., 460 Nov.; Brewer, R., 230 June; Bridgewater, T. H., 230 June; Brittain, F. H., 460 Nov.; Broadbent, J. P., 312 Aug.; Brunker, A. J., 190 May; Bryne, Dr. N. A. de, 496 Dec.; Burchley, Lord, 230 June; Callendar, M. V., 63 Feb.; Canning, P. D., 190 May; Cherry, Dr. E. C., 312 Aug.; Cleland, James, 22 Jan.; Connelly, Frank, C., 230 June; Cotton, Richards W., 312 Aug.; Edinburgh, H.R.H. Duke of, 230 June, 495 Dec.; Davidson, R., 312 Aug.; Davies, K. S., 148 Apr.; Davies, William, 189 May; Davis, C. H., 148 Apr.; Diver, F. G., 270 July; Finden, H. J., 363 Sept.; Fink, Donald G., 271 July; Fisk, Sir Ernest, 148 Apr.; Fleming, Sir Arthur, 101 Mar.; Foot, J. B. Lovell, 148 Apr.; Forest, Dr. Lee de, 230 June; Forsyth-Grant, M. L., 460 Nov.; Furner, J. L., 495 Dec.; Garthwaite, E., 270 July; George Gernsbach, Hugo, 271 July; Godfrey, W., 63 Feb.; Goldup, T. E., 363 Sept., 417 Oct.; Gunn-Russell, C., 460 Nov.; Hall, M. H., 230 June; Hamer, E. G., 63 Feb.; Hankey, Lord, 417 Oct.; Harman, R. C., 230 June; Hart, E. D., 363 Sept.; Hollingsworth, D. T., 190 May; Howie, John A., 149 Apr.; Humphreys, H. F., 312 Aug.; Humphreys, H. R., 148 Apr.; Hunter, P. V., 363 Sept.; Hutton, J. Alan, 102 Mar.; Ingram, C. A., 148 Apr.; Jackson, G. A., 313 Aug.; Jacob, Sir Ian, 460 Nov.; Jessel, Dr. R., 312 Aug.; Johnson, G. F., 417 Oct.; Johnstone, G. G., 363 Sept.; Juge, John H., 271 July; Keir, John A., 148 Apr.; Kemp, Walter, D., 63 Feb.; Kent, Col. W. J., 63 Feb.; Kirke, H. L., 102 Mar.; Knowling, A. C., 270 July; Leslie, R. W., 460 Nov.; Lipworth, Edgar, 496 Dec.; Lovelock, R. T., 363 Sept.; MacCallum, Major H., 417 Oct.; McGee, J. D., 101 Mar.; McLean, F. C., 312 Aug.; Macnamara, T. C., 148 Apr.; Marchant, Prof. E. W., 149 Apr.; Marriott, G. A., 148 Apr.; Martin, Anthony W., 63 Feb.; Megaw, Dr. E. C. S., 62 Feb., 363 Sept.; Miller, W. E., 363 Sept.; Milner, Dr. C. J., 312 Aug.; Moppett, Brig. E. J. H., 270 July; O'Kane, Dr. B. J., 460 Nov.; Oura, H. L., 148 Apr.; Parkin, P. H., 63 Feb.; Patchett, G. N., 230 June; Payman, H. S., 460 Nov.; Peddle, E. A. R., 417 Oct.; Rankin, R. C., 363 Sept.; Read, Col. A. H., 313 Aug.; Richards, W. J., 270 July; Richardson, W. D., 230 June; Rogers, E. B., 148 Apr.; Rowe, E. G., 102 Mar.; Russell, K. A., 313 Aug.; Sainsbury, J. R. D., 495 Dec.; Sanders, T. R. B., 417 Oct.; Scroggie, M. G., 22 Jan.; Sharp, Peter E. M., 148 Apr.; Sheil-Small, D. M., 148 Apr.; Sims, H. V., 191 May; Sinfield, L. F., 271 July; Slade, Hector V., 190 May; Smith G. Darnley, 148 Apr.; 496 Dec.; Smith-Rose, Dr. R. L., 270 July; Solari, Marchese Luigi, 62 Feb.; Somerville, T., 148 Apr.; Spagnoletti, P. H., 148 Apr.; Springer, H. A., 460 Nov.; Stanley, C. O., 496 Dec.; Stevens, W. H., 190 May; Stibbe, H., 496 Dec.; Strafford, F. R. W., 230 June; Swanson, J. W. M., 495 Dec.; Sykes, Jack, 271 July; Taylor, D. P., 230 June; Taylor, Maurice, 190 May; Taylor, P. H., 63 Feb.; Thomson, D., 363 Sept.; Veevers, J. Foster, 417 Oct.; Voigt, P. G. A. H., 495 Dec.; Walker, A. H. B., 363 Sept.; Walker, H., 230 June; Walker, P. J., 363 Sept.; Watson-Watt, Sir Robert, 230 June; White, C. G., 148 Apr.; Whiting, H. G., 230 June; Williams, F., 230 June; Williamson, D. T. N., 190 May, 495 Dec.; Wylie, Capt. F. J., 495 Dec.; Wynn, R. T. B., 312 Aug.  
 Phase-Angle Ellipse, 432 Oct.; (Correspondence) 458 Nov.  
 Phonetic Alphabets (Correspondence) 59 Feb.; (News) 459 Nov.  
 Physical Society's Exhibition (News) 62 Feb., 147 Apr.; Survey, 183 May  
 Physiological Feedbacks, by T. E. Ivall, 137 Apr.  
 Pickup Construction, Pollock Kit of Parts, 53 Feb.  
 Post Office Television Detection Vans, 104 Mar.  
 Potentiometer, John Bell & Croydon Sub-Miniature, 474 Nov.  
 Power Pack, Variable H.T., by A. H. B. Walker, 374 Sept.  
 Power, Total, by "Cathode Ray", 117 Mar. Preferred Values, Oddness of, by "Cathode Ray", 77 Feb.; (Correspondence) 146 Apr., 187 May  
 Pre-Heaviside Propagation Theories, by E. W. Marchant, 151 Apr.; (Correspondence) 187 May  
 Pre-recorded (Correspondence) 269 July, 356 Sept.  
 Printed Circuits, 488 Dec.  
 Projection Television versus Direct-Viewing, by R. C. Heath, 485 Oct.  
 Propagation of V.H.F. via Sporadic E., by T. W. Bennington, 5 Jan.  
 Pulse Technique Television Set Testing, by M. V. Callendar, 42 Feb.; (Correspondence) 146 Apr.  
 Purchase Tax on Relay Apparatus and Loudspeakers (Editorial) 333 Sept.; (News) 362 Sept., 416 Oct.  
 Push-Pull Amplifier, 'Single-Ended', 203 May  
**R.C.E.E.A.** Business Radio, 116 Mar.  
 — Council (News) 102 Mar.  
 R.E.C.M.F. Council (News) 191 May  
 — Exhibition (News) 147 Apr.; Survey, 179 May  
 R.F. Characteristics of Capacitors, by R. Davidson, 301 Aug.; (Correspondence) 419 Oct., 457 Nov.  
 R.G.D.Re-organization (News) 314 Aug.  
 R.I.C.:  
 — Component Specifications 295 Aug  
 — Officers Elected 1952 (News) 190 May  
 — Report on V.H.F. Radio (News) 405 Dec.  
 Standardization of Components (Editorial) 169 May  
 Technical Training Scheme (News) 311 Aug., 362 Sept., 400 Oct.  
 — Writing Premiums, 3 Jan.; (News) 270 July, 362 Sept.  
 Telecommunications Industries Standards Committee (News) 271 July  
 21st Anniversary (News) 271 July  
 R.N.V.W.R., 4 Jan.  
 R.S.G.B.:  
 — Amateurs on Board Ship (News) 189 May  
 — Amateur Radio Exhibition 1951, 13 Jan.; 1952 (News) 232 June, 364 Sept., 459 Nov.  
 — Duke of Edinburgh's Patronage (News) 495 Dec.  
 — Officers (News) 102 Mar.  
 R.T.E.B. Hurren Resigns Chairmanship (News) 23 Jan.  
 — Servicing Certificates (News) 22 Jan.  
 Radar Association Elections (News) 231 June  
 Radar Awards by Royal Commission (Editorial) 83 Mar.; List of Recipients 99 Mar.  
 — Reflectors, 156 Apr.  
 Radio Amateurs' Examination Results (News) 497 Dec.  
 — Astronomy, Royal Institution Paper, (News) 21 Jan.  
 Radio-Controlled Jet Plane at Model Engineer Exhibition, 68 Dec.  
 — Models, I.E.E. Lecture, 176 May  
 — Society, Contact (News) 191 May  
 Radio Feeder Unit, by J. F. O. Vaughan, Correction (News) 23 Jan.  
 — Heating, 157 Apr.  
 — Indiscipline (Correspondence) 146 Apr.  
 — Manufacture in India, by John A. Howie, 159 Apr.  
 — Officers' Union, Chairman Elected (News) 231 June  
 — Picture Relay Reporting, 492 Dec.  
 — Politics (Editorial) 1 Jan.  
 — Propagation Warnings, 361 Sept.  
 — Research at N.P.L., 274 July  
 — Societies and Clubs, List, 463 Nov.  
 Radio's Responsibilities (Correspondence) 59 Feb.  
 Radioactivity Danger in Meters (Correspondence) 20 Jan.  
 Radiophone for 1400 Mc/s, by J. B. Lovell Foot, 132 Apr.  
**RANDOM RADIATIONS**, by "Diallist": 38 Jan., 80 Feb., 124 Mar., 166 Apr., 206 May 246 June, 288 July, 330 Aug., 380 Sept., 436 Oct., 476 Nov., 526 Dec.  
 Reactance Sketches, by "Cathode Ray", 259 July; Answer to Problem, 325 Aug.  
 Record Player, Richard Allen Console, 474 Nov.  
 Recording Characteristics, B.S.R.A. Lectures 178 May, 448 Nov.

Recording Tape Eraser, Leever Rich, 525 Dec.  
 Redesign Government Hearing Aid, 177  
 May; (*Correspondence*) 310 Aug.  
 Reducing Fire Risks, by F. R. W. Strafford,  
 499 Dec.  
 Relay, Londex Coaxial, 123 Mar.  
 Relay-operated Protective Device for H.T.,  
 by D. Clements, 163 Apr.  
 Reliable Valves and the User, by E. G. Rowe,  
 105 Mar., 377 Sept.; (*Correspondence*)  
 146 Apr.  
 Remote Control of Large Travelling Cranes,  
 329 Aug.  
 Reshaping Information, Communication  
 Theory Symposium, 445 Nov.  
 Resistance, Measuring High, by M. G.  
 Scroggie, 236 June  
 Resistor Colour Coding (*Correspondence*) 103  
 Mar., 227 June, 269 July, 355 Sept.  
 Resistors, Adhesive Tape, Amer. Bur. of  
 Standards, 70 Feb., 451 Nov.  
 Review of 460 Mc/s, by E. G. Hamer, 51 Feb.  
 Royal Society's Conversazione, 286 July

**S.I.M.A.** Electronics Symposium (*News*) 313  
 Aug.  
 St. Paul's Cathedral, Speech Reinforcement  
 in, by P. H. Parkin and P. H. Taylor,  
 54 Feb., 109 Mar.  
 Safer A.C./D.C. Sets (*Correspondence*) 20  
 Jan., 59 Feb.  
 Schools Television (*News*) 147 Apr.; (*Editorial*)  
 209 June; (*Correspondence*) 309,  
 Aug.  
 Scottish Television Station, 172 May  
 Series-Mode Crystal Oscillators, by H. B.  
 Dent, 275 July  
 Series or Parallel? by "Cathode Ray", 321  
 Aug.  
 Servicemen Apprenticeships (*News*) 459 Nov.  
 Servo-Mechanisms, by P. L. Taylor, 25 Jan.  
**SHORT-WAVE CONDITIONS**, 4 Jan., 75  
 Feb., 122 Mar., 104 Apr., 178 May,  
 228 June, 274 July, 319 Aug., 342  
 Sept., 401 Oct., 456 Nov., 511 Dec.  
 Signal Generator 66A, Taylor Electrical,  
 287 July  
 Signal-strength Meter, E.M.I. 165 Apr.  
 Simple Line-Scan Circuit, by W. T. Cocking,  
 305 Aug.  
 Square-wave Generator, by L. F.  
 Sinfield, 285 July  
 Simplified Aerodrome Approach Aid, E. K.  
 Cole, 162 Apr.  
 'Single-Ended' Push-pull Amplifier, 203 May  
 Soldering Iron, Oryx Sub-Miniature, 9 Jan.  
 Technique, Australian I.R.E. Paper,  
 507 Dec.  
 Sound Reproduction, B.S.R.A. and A.P.A.E.  
 Exhibitions, 255 July  
 Speech Reinforcement in St. Paul's Cathedral,  
 by P. H. Parkin and P. H. Taylor, 54  
 Feb., 109 Mar.  
 Spinning Parabolic Reflectors, 158 Apr.  
 Sponsored Television (*Editorials*) 1 Jan., 291  
 Aug., 479 Dec., B.B.C. Charter, 304  
 Aug.; Company Formed (*News*)  
 364 Sept.  
 'Sporadic E' Clouds, by D. W. Heightman,  
 136 Apr.; Correction (*News*) 192 May  
 Sporadic E, Propagation of V.H.F. via,  
 by T. W. Bennington, 5 Jan.  
 Spot, Oval, (*Correspondence*) 20 Jan., 187  
 May, 228 June  
 'Spot Stretching': Line Eliminator, by  
 G. N. Patchett, 219 June  
 Standard Frequencies (*News*) 101 Mar.,  
 147 Apr.  
 Standardization of Components (*Editorial*)  
 169 May  
 Steering by Radio, I.E.E. Lecture, 176 May

Stethoscope, Leland Electronic, 525 Dec.  
 Stockholm Conference on V.H.F. Broad-  
 casting (*News*) 62 Feb., 229 June,  
 362 Sept.; Summary, 433 Oct.  
 Student Exchange, I.A.E.S.T.E., 122 Mar.,  
 527 Dec.  
 Studio Design, Orchestral, by T. Somerville  
 and H. R. Humphreys, 128 Apr.  
 Studying Brain Waves, 72 Feb.  
 Submarine Television, 205 May, 221 June  
 Suspended Television Feeder, Kirk o'Shotts  
 and Wenvoe, 473 Nov.  
 Swiss Television (*News*) 497 Dec.  
 Sync-Separator Circuit: Faulty Interlacing,  
 by G. N. Patchett, 250 July, 315 Aug.;  
 (*Correspondence*) 420 Oct., 457 Nov.

**TAPE** Recordings, Duplicating, by Donald  
 W. Aldous, 320 Aug.  
 — — — Mavotape Inc. (*News*) 461 Nov.  
 Technical Personnel Committee (*News*) 23  
 Jan.  
 — — — Training Scheme, R.I.C. (*News*) 311  
 Aug., 362 Sept.  
 — — — Writing Premiums, 3 Jan.; (*News*)  
 270 July, 362 Sept.  
 Technicians' Training (*News*) 311 Aug.  
 Technologists in Medical Work, E.P.T.A.,  
 164 Apr.  
 Telecommunication Industries Standards  
 Committee (*News*) 271 July  
 Telegraph Tempo (*Editorial*) 127 Apr.;  
 (*Correspondence*) 188 May  
 Telescope, Giant Radio, 238 June  
 Television A.G.C. Circuit, by G. F. Johnson,  
 424 Nov.  
 — — — Advisory Committee (*Editorials*) 291  
 Aug., 479 Dec.  
 — — — Bandwidth (*Correspondence*) 420 Oct.,  
 457 Nov.  
 — — — Booster Station, E. K. Cole, 514 Dec.  
 — — — Camera Tube, R.C.A. Vidicon, 448 Nov.  
 — — — Eye-strain, 226 June  
 — — — Frequency Converter, Spencer-West,  
 287 July  
 — — — from Paris, 298 Aug.  
 — — — Ghosts, by J. A. Hutton, 84 Mar.;  
 (*Correspondence*) 145 Apr.  
 — — — Interference (*News*) 311 Aug.  
 — — — Oscilloscope, by W. Tusting, 233 June,  
 280 July; Correction (*News*) 364 Sept.  
 — — — Receiving Aerials, by F. R. W. Strafford,  
 213 June, 264 July  
 — — — Set Testing, by M. V. Callendar, 42 Feb.;  
 (*Correspondence*) 146 Apr.  
 Television Society, Exhibition 1952, 45 Feb.;  
 1953, 495 Dec.  
 — — — Jubilee Booklet (*News*) 461 Nov.  
 — — — Silver Jubilee (*News*) 149 Apr.  
 — — — Silver Jubilee Dinner, Appleton's  
 Speech (*News*) 230 June  
 — — — Transmitter (*News*) 364 Sept.  
 — — — Stations Progress (*News*) 21 Jan.  
 — — — Tuner, Plessey, 123 Mar.  
 Testing Aerials, by Michael Lorant, 327 Aug.  
 Thermostat, What is a? (*Correspondence*)  
 356 Sept.  
 Thorn Needles, Further Notes on, by S.  
 Kelly 243 June; by A. M. Pollock,  
 244 June; (*Correspondence*) 269  
 July, 309 Aug.  
 Tinning Litz Wire (*Correspondence*) 20 Jan.  
 Too Many Recording Characteristics? (*Corres-  
 pondence*) 309 Aug., 355 Sept., 419  
 Oct., 493 Dec.  
 Total Power, by "Cathode Ray", 117 Mar.  
 Transatlantic Television, Map, 408 Oct.  
 Transformers, Drying Out, by J. MacIntosh,  
 523 Dec.  
 Transient Response, Calculating, by Thomas  
 Roddam, 292 Aug.

Transmitter Marker Buoy, Venner, 468 Nov.  
 "Trustworthy" Valves, by E. G. Rowe,  
 105 Mar., 377 Sept.; (*Correspondence*)  
 146 Apr.  
 Two-range Test Oscillator, by H. B. Dent,  
 508 Dec.  
 Two-speed Reduction Drive, Transradio  
 Ltd., 165 Apr.  
 Two-triode R.F.? (*Correspondence*) 19 Jan.

**U.R.S.I.** Frequencies for Extra-Terrestrial  
 Noise (*News*) 21 Jan.  
 U.S. Scholarships (*News*) 147 Apr.  
 — — — Television, F.C.C. Ban Lifted (*News*)  
 270 July  
 — — — Stations (*News*) 496 Dec.  
 Unattended Transmitters, Marconi, 462 Nov.  
 UNBIASED, by "Free Grid", 40 Jan., 82 Feb.,  
 126 Mar., 168 Apr., 208 May, 248 June,  
 290 July, 332 Aug., 382 Sept., 438  
 Oct., 478 Nov., 528 Dec.  
 Underwater Television, 205 May, 221 June  
 Unipole Television Aerial, 278 July  
 Units, More New (*Correspondence*) 19 Jan.  
 Units of Capacitance (*Correspondence*) 19  
 Jan., 187 May, 355 Sept., 420 Oct.  
 Universal Meter Shunt (*Correspondence*) 19  
 Jan.

**V.H.F.** Broadcasting, by J. R. Brinkley,  
 279 July; (*Correspondence*) 309 Aug.,  
 419 Oct., 493 Dec.  
 — — — B.B.C. Recommendations, 10 Jan.  
 — — — German Network, 141 Apr.  
 — — — P.M.G.'s Statement (*News*) 189  
 May  
 — — — Stockholm Conference (*News*) 62  
 Feb., 229 June, 362 Sept.; Summary,  
 433 Oct.  
 — — — Propagation over Long Distances,  
 American Experiments, 273 July  
 — — — via Sporadic E, by T. W. Benning-  
 ton, 5 Jan.  
 — — — Radio, by E. G. Hamer, 519 Dec.  
 Valve Life Testing, by R. Brewer, 239 June  
 — — — Retainers, Electrothermal Engineer-  
 ing, 475 Nov.  
 — — — Voltmeter, by M. G. Scroggie, 14 Jan.,  
 89 Mar.; (*Correspondence*) 146 Apr.,  
 310 Aug.  
 Variable Capacitors, Jackson, 287 July  
 Venezuelan Television Service (*News*) 313  
 Aug.  
 Vibration Generator, Goodmans, 79 Feb.

**W/T** Training for Scouts (*News*) 495 Dec.  
 Why 47? by "Cathode Ray", 77 Feb.;  
 (*Correspondence*) 146 Apr., 187 May  
 Wick Radio, 472 Nov.  
 Williamson Amplifier; Amplifiers and Super-  
 lattives, by D. T. N. Williamson and  
 P. J. Walker, 357 Sept.  
 — — — Modifications for Long-Playing  
 Records, by D. T. N. Williamson, 173  
 May  
 Winds in the Ionosphere, 188 May; Corre-  
 ction (*News*) 232 June; (*Correspon-  
 dence*) 269 July  
 Wire Capacitors, Philips Miniature, 202 May  
 Wireless in Westminster (*Editorial*) 249  
 July  
**WORLD OF WIRELESS**, 21 Jan., 62 Feb.,  
 101 Mar., 147 Apr., 189 May, 229  
 June, 270 July, 311 Aug., 362 Sept.,  
 416 Oct., 459 Nov., 495 Dec.  
 Wrotham Schedule Changes (*News*) 416  
 Oct.

## CLASSIFIED INDEX

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

### AERIALS

Radio Exchange, Admiralty, 444 Nov.  
 — — — Propaganda (*Correspondence*) 146 Apr.  
 — — — Terminology (*Correspondence*) 269 July  
 All-wave Aerial, Antiferene, 373 Sept.  
 Giant Radio Telescope, 238 June  
 Loop Aerial Reception, by G. Bramslev,  
 469 Nov.  
 Parabolic Reflectors, Spinning, 158 Apr.  
 Suspended Television Feeder, Kirk o'Shotts  
 and Wenvoe, 473 Nov.  
 Television Ghosts, by J. A. Hutton, 84 Mar.;  
 (*Correspondence*) 145 Apr.  
 Television Receiving Aerials, by F. R. W.  
 Strafford, 213 June, 264 July  
 Testing Aerials, by Michael Lorant, 327 Aug.  
 Unipole Television Aerial, 278 July

### CIRCUITRY

A.C./D.C. Sets, Safer, (*Correspondence*) 20  
 Jan., 59 Feb.  
 Duals, by "Cathode Ray", 152 Apr.  
 Economical Metering, by H. B. Dent, 112  
 Mar.  
 Electronic Switching, by E. A. R. Peddle,  
 421 Oct., 465 Nov.  
 High-tension Delay Circuit, by D. Clements,  
 163 Apr.  
 L/C Ratio, by "Cathode Ray", 412 Oct.  
 Oscillators, Electron-coupled, by "Cathode  
 Ray", 515 Dec.  
 R.F. Characteristics of Capacitors, by R.  
 Davidson, 301 Aug.; (*Correspondence*)  
 419 Oct., 457 Nov.  
 Reactance Sketches, by "Cathode Ray",

259 July. Answer to problem, 325 Aug.  
 Reducing Fire Risks, by F. R. W. Strafford,  
 499 Dec.  
 Series or Parallel? by "Cathode Ray", 321  
 Aug.  
 'Single-ended' Push-pull Amplifier, 203 May  
 Two-triode R.F.? (*Correspondence*) 19 Jan.

### DESIGN

A.G.C. Circuit for Television, by G. F.  
 Johnson, 424 Oct.  
 Colour Coding for Drills (*Correspondence*)  
 187 May  
 Converter, 21-Mc/s Band-pass, 267 July  
 Decade Multivibrator Design, by J. E. Attew,  
 114 Mar.



Johnstone, 334 Sept., 428 Oct.  
 P.M. Receiver Modification, by J. G. Spencer, 204 May  
 Faulty Interlacing, by G. N. Patchett, 250 July, 315 Aug.; (Correspondence) 420 Oct., 457 Nov.  
 H.T. Power Pack, Variable, by A. H. B. Walker, 374 Sept.  
 Line Eliminator, by G. N. Patchett, 219 June  
 Line-scan Circuit, by W. T. Cocking, 305 Aug.  
 Loop Aerial Reception, by G. Bramslev, 469 Nov.  
 Meters, Modifying Surplus (Correspondence) 20 Jan.  
 R.F. Bridge, Experimenter's, by H. V. Sims, 196 May  
 R.F. Tuner, "No Compromise", by W. Winder, 406 Oct.  
 Radio Feeder Unit, by J. F. O. Vaughan, Correction (News) 23 Jan.  
 Series-mode Crystal Oscillators, by H. B. Dent, 275 July  
 Signal Tracer, "All-dry", by E. J. Faulkner, 487 Dec.  
 Soldering Technique: Australian I.R.E. Paper, 507 Dec.  
 Square-wave Generator, Simple, by L. Sinfield, 285 July  
 Television Oscilloscope, by W. Tusting, 233 June, 280 July; Correction (News) 364 Sept.  
 Tinning Litz Wire (Correspondence) 20 Jan.  
 Tone Control, Negative Feedback, by P. J. Baxandall, 402 Oct.; Correction, 444 Nov.  
 Two-range Test Oscillator, by H. B. Dent, 508 Dec.  
 Valve Voltmeter, by M. G. Scroggie, 14 Jan., 89 Mar.; (Correspondence) 146 Apr., 310 Aug.

### ELECTRONICS

B.T.H. Developments—Booklet, 57 Feb.  
 Calculating Transient Response, by Thomas Roddam, 292 Aug.  
 Dielectric Amplifiers, 60 Feb.  
 Echo Fishing—"Fischlupe", 195 May  
 Electro-encephalographic Techniques, 72 Feb.  
 Electronic Noughts and Crosses (Correspondence) 269 July  
 — Switching, by E. A. R. Peddle, 421 Oct., 465 Nov.  
 Energy, by "Cathode Ray", 31 Jan. (Correspondence) 103 Mar.; Correction, 122 Mar.  
 Organ, New Electronic, Sept. 370  
 Physiological Feedbacks, by T. E. Ivall, 137 Apr.  
 Radio-controlled Jet Plane at Model Engineer Exhibition, 489 Dec.  
 Radio Heating, 157 Apr.  
 Remote Control of Large Travelling Cranes, "Vestrad", 329 Aug.  
 Servo-mechanisms, by P. L. Taylor, 25 Jan.  
 Thermostat, What is a, (Correspondence) 356 Sept.  
 Total Power, by "Cathode Ray", 117 Mar.

### MANUFACTURERS' PRODUCTS

Alexander Equipment Ltd., Panel-marking Transfers, 320, Aug.  
 Allan Console Record Player, 474 Nov.  
 — Radio Extension Loudspeaker, 37 Jan.  
 Ambassador A.M.-F.M. Comparator, 35 Jan.; (Correspondence) 59 Feb., 103 Mar.  
 Amplivox Miniature Earphone, 165 Apr.  
 Antiference All-wave Aerial, 373 Sept.  
 Bell & Croyden Sub-miniature Potentiometer, 474 Nov.  
 Bulgin Micro Switches, 506 Dec.  
 Chancery Precision Instruments Crystal Pickup, 525 Dec.  
 Cossor Airfield Radar, 373 Sept.  
 Denco Miniature Dual-purpose Coils, 474 Nov.  
 E.M.I. All-wave Interference Suppressor, 245 June  
 — Signal-strength Meter, 165 Apr.  
 Eddystone 680X Communications Receiver, 245 June  
 Electrothermal Engineering Valve Retainers, 475 Nov.  
 Enthoven Telecine Flux, 37 Jan.  
 G.E.C. Metal-cone Loudspeaker, article by F. H. Brittain, 440 Nov., 490 Dec.  
 Glass Bulbs, Ltd., Mass-producing Valve Envelopes, 278 July  
 Goodman's Vibration Generator, 79 Feb.  
 H.M.V. Car Radio Units, 37 Jan.  
 Jackson Split-stator Capacitors, 474 Nov.  
 — Variable Capacitors, 287 July

Leand Electronic Stethoscope, 525 Dec.  
 Londex Coaxial Relay, 123 Mar.  
 Miller 'Crackle' Finish Enamel, 475 Nov.  
 Minnesota Mining and Manufacturing Co.'s Magnetic Coating Compound, 79 Feb.  
 Mullard Miniature Valves, 494 Dec.  
 N.R.D. Corona Stabilizer, 123 Mar.  
 Oryx 'Sub-miniature' Soldering Iron, 9 Jan.  
 Osmor Miniature Coils, 79 Feb.  
 Philips Miniature Wire Capacitors, 202 May  
 Plessey Television Tuner, 123 Mar.  
 Pollock Kit of parts for Pickup Construction, 53 Feb.  
 Pye Telecommunications 50-watt V.H.F. Transmitter, 370 Sept.  
 — Television for Banks, 379 Sept.  
 Radiomobile Car Radio Units, 37 Jan.  
 Rees Mace Cabin Broadcast Set, 475 Nov.  
 Spencer-West Television Converter, 287 July  
 Taylor Electrical Signal Generator 66A, 287 July  
 Technograph Printed Circuits, 488 Dec.  
 Telcon Corundum Cable Termination, 12 Jan.  
 Tenaplas Two-colour P.V.C. Wires, 111 Mar.  
 Transradio Microdual Reduction Drive, 165 Apr.  
 Venner Transmitting Marker Buoy, 468 Nov.  
 Waveforms Ltd., E.H.T. Indicator, 37 Jan.  
 Wolsey Television Coaxial Outlet Box, 245 June

### MODULATION

A.M.-F.M. Comparator, 35 Jan.; (Correspondence) 59 Feb., 103 Mar.  
 Delta Modulation, I.B.E. Symposium Paper, 427 Oct.  
 F.M. in Germany, 141 Apr.  
 1,400-Mc/s Radiophone, by J. B. Lovell Foot, 132 Apr.  
 V.H.F. Broadcasting: B.B.C. Recommendation, 10 Jan.

### ORGANIZATION

A.P.A.E. Exhibition (News) 23 Jan., 148 Apr.; Reports, 255, 272 July  
 — Officers Elected (News) 271 July  
 Air Radio Developments, S.B.A.C. Exhibition, 397 Oct.  
 — Mechanics' Salaries (News) 495 Dec.  
 Airmet, Hope for? (Correspondence) 20 Jan.  
 Amateur Licence Changes (News) 311 Aug.  
 — Radio Show, R.S.G.B., 13 Jan.  
 — Recordings (News) 270 July  
 — Wavebands Altered (News) 270 July  
 — 21-Mc/s Band (News) 495 Dec.  
 Amateurs at Sea, Wavelengths for, (News) 189 May  
 Army Emergency Reserve, 503 Dec.  
 Association of Professional Recording Studios (News) 313 Aug.  
 B.B.C. Annual Report (Editorial) 439 Nov.  
 B.S.R.A. Annual Convention, 284 July  
 — Exhibition (News) 189 May; Survey, 255 July  
 — Officers Elected (News) 271 July  
 B.T.H. Engineering Research Fellowships (News) 313 Aug.  
 Brit. I.R.E. in India (News) 231 June  
 — Premiums Awarded (News) 416 Oct.  
 Broadcasting Coverage (Correspondence) 146 Apr.  
 Broadcasting White Paper Debate (Editorial) 249 July  
 C.C.I.R., International Television Standards, 296 Aug.  
 Charter for B.B.C. (Editorials) 1 Jan., 291 Aug.; (News) 21 Jan.; Note, 304 Aug.  
 City & Guilds Insignia Award (News) 495 Dec.  
 — Examination Results (News) 460 Nov., 497 Dec.  
 Commercial Broadcasting, 401 Oct.  
 Component Colour Coding, by D. F. Urquhart, 193 May  
 Component Specifications (Editorial) 169 May  
 Components, Developments in, R.E.C.M.F. Exhibition, 179 May  
 E.B.U., I.F. Broadcast Inquiry (Correspondence) 493 Dec.  
 E.M.I. Institutes Training, 11 Jan.  
 E.P.T.A.: Technologists in Medical Work, 164 Apr.  
 Earls Court Television Distribution (Correspondence) 19 Jan.  
 Electronic Apprenticeships, Ministry of Supply (News) 459 Nov.  
 European V.H.F. Broadcasting Conference, 433 Oct.  
 G.P.O. Harbour Radiophones (Editorial) 127 Apr.  
 Geneva Conference (News) 21 Jan.; (Editorial) 41 Feb.; Article, 61 Feb.

I.A.E.S.T.E. Student Exchange, 122 Mar., 527 Dec.  
 I.E.E. Council Elected (News) 364 Sept.  
 — Electric Wiring Regulations, 140 Apr.  
 — Premiums (News) 312 Aug.  
 — Radio Section Committee Elected (News) 364 Sept.  
 — Membership (News) 271 July  
 — Television Convention (News) 2 Jan., 101 Mar., 147 Apr.; (Editorial) 209 June; Summary of Papers, 271, 212 June  
 I.F. for Television Receivers (Editorial) 4 Feb.; (Correspondence) 145 Apr., 22 Jun.  
 I.R.E. American, Membership (News) 32 Aug.  
 Institution of Electronics (Correspondence) 458 Nov.  
 — of Navigation Membership (News) 49 Dec.  
 International Broadcasting (Correspondence) 356 Sept.  
 — Exchange of Students, I.A.E.S.T.E., 122 Mar., 527 Dec.  
 — Television Committee (News) 147 Apr.  
 Lighthouse Radio Beacons (News) 229 June  
 Marine A.M. or F.M.? (News) 229 June  
 — Radio, International Convention, 227 July  
 Millionth Television Licence (News) 21 Jan.  
 Morse Operating Encouraging, (Correspondence) 420 Oct., 458 Nov., 498 Dec.  
 Morse, Schedule for News in, (News) 101 Mar.  
 N.P.L. Radio Research, 274 July  
 National Radio Exhibition 1952 (News) 147 Apr., 189 May, 311 Aug.; (Editorials) 333 Sept., 383 Oct., Guide, 343 Sept.; Review, 384 Oct.; Attendance (News) 416 Oct.; 1953 (News) 496 Dec.  
 P.M.G. Statement on V.H.F. (News) 189 May  
 — Interference Suppression (News) 189 May  
 Phonetic Alphabets (Correspondence) 59 Feb.; (News) 459 Nov.  
 Physical Society's Exhibition (News) 62 Feb., 147 Apr.; Survey, 183 May  
 Purchase Tax on Relay Apparatus and Loudspeakers (Editorial) 333 Sept.; (News) 362 Sept., 416 Oct.  
 R.C.E.E.A., Business Radio, 116 Mar.  
 — Council (News) 102 Mar.  
 R.E.C.M.F. Council Members Elected (News) 191 May  
 — Exhibition (News) 147 Apr.; Survey, 179 May  
 R.I.C. Officers Elected 1952 (News) 190 May  
 — Technical Training Scheme (News) 311 Aug., 362 Sept., 400 Oct.  
 — Writing Premiums, 3 Jan.; (News) 270 July, 362 Sept.  
 — Telecommunications Industries Standards Committee (News) 271 July  
 R.N.V.W.R., 4 Jan.  
 R.S.G.B., Amateur Radio Exhibition 1951 13 Jan.; 1952 (News) 232 June, 364 Sept., 459 Nov.  
 — Officers (News) 102 Mar.  
 R.T.E.B. Servicing Certificates (News) 22 Jan.  
 Radar Association Elections (News) 231 June  
 Radio-Controlled Models Society, Contest (News) 191 May  
 Radio Indiscipline (Correspondence) 146 Apr.  
 — Manufacture in India, by John A. Howie 159 Apr.  
 — Officers' Union, Chairman Elected (News) 231 June  
 — Politics (Editorial) 1 Jan.  
 — Societies and Clubs, List, 463 Nov.  
 Radio's Responsibilities (Correspondence) 59 Feb.  
 Resistor Colour Coding (Correspondence) 103 Mar., 227 June, 269 July, 355 Sept.  
 Scouts W/T Training (News) 495 Dec.  
 Servicemen Apprenticeships (News) 459 Nov.  
 Servicing Certificates (News) 22 Jan.  
 Sponsored Television (Editorials) 1 Jan., 291 Aug., 479 Dec.; B.B.C. Charter, 304 Aug.; Company Formed (News) 364 Sept.  
 Standard Frequencies (News) 101 Mar., 147 Apr.  
 Technical Personnel Committee (News) 23 Jan.  
 Technical Writing Premiums, 3 Jan.; (News) 270 July, 362 Sept.  
 Telecommunication Industry Standards Committee (News) 271 July  
 Telegraph Tempo (Editorial) 127 Apr.; (Correspondence) 187 May  
 Television Advisory Committee (Editorials) 291 Aug., 479 Dec.  
 — Society's Exhibition 1952, 45 Feb.; 1953, 495 Dec.

Transmitters Encroaching on Amateur Bands, 263 July  
I.F.F. Broadcasting, German Network, 141 Apr.  
— Stockholm Conference (News) 62 Feb., 229 June, 362 Sept.; Summary, 453 Oct.  
Weather Schedule Changes (News) 416 Oct.

### PROPAGATION

Ionosphere Review: 1951, by T. W. Bennington, 121 Mar.  
New Kind of V.H.F. Propagation, U.S. Nat. Bur. of Standards Report, 273 July  
Seaside Propagation Theories, by E. W. Marchant, 151 Apr.; (Correspondence) 187 May  
Radio Astronomy—Royal Institution Paper (News) 21 Jan.  
Radio Propagation Warnings, 361 Sept.  
Review of 460 Mc/s, by E. G. Hamer, 51 Feb.  
Radio Society Conversazione, 286 July  
Sporadic E" Clouds, by D. W. Heightman, 136 Apr.; Correction (News) 192 May  
Television Ghosts, by J. A. Hutton, 84 Mar.; (Correspondence) 145 Apr.  
Television Interference (News) 311 Aug.  
I.F.F. Broadcasting, B.B.C. Recommendation, 10 Jan.  
I.F.F. Propagation via Sporadic E, by T. W. Bennington, 5 Jan.  
Winds in the Ionosphere, 188 May; Correction (News) 232 June; (Correspondence) 269 July

### RADIOLOCATION

Aerobrome Approach Aid, E. K. Cole, 162 Apr.  
Airfield Radar, Cossor, 373 Sept.  
Awards to Radar Pioneers (Editorial), 83 Mar.; List of Recipients, 99 Mar.  
Decca Navigator Coverage Extended, 338 Sept.  
Giant Radio Telescope, 238 June

### SOUND REPRODUCTION

A.M.-F.M. Comparator, 35 Jan.; (Correspondence) 59 Feb., 103 Mar.  
Amplifiers and Superlatives, by D. T. N. Williamson and P. J. Walker, 357 Sept.  
Association of Professional Recording Studios, 12 Jan.; (News) 313 Aug.  
B.S.R.A. and A.P.A.E. Exhibitions, 255 July  
Seats, by "Cathode Ray", 452 Nov.  
Duplicating Tape Recordings, by Donald W. Aldous, 320 Aug.  
E.M.I. Microgroove Records (News), 232 June, 417 Oct.  
Electronic Organ, New, 370 Sept.  
Equalization (Tone-correcting Circuits) by "Cathode Ray", 65 Feb.  
Frequency Response Measurements (Correspondence) 269 July, 356 Sept.  
Gramophone Motors, B.S.R.A. Discussion, 135 Apr.  
Hearing Aid, Redesigned Government, 177 May; (Correspondence) 310 Aug.  
High-quality Amplifier Modifications, by D. T. N. Williamson, 173 May  
Hot Stylus Technique, B.S.R.A. Lecture, 50 Feb.; (Correspondence) 145 Apr., 227 June  
Loudspeaker Response Curves, 58 Feb.  
Loudspeaker Without Diaphragm, 2 Jan.  
Magnetic Recording, Boundary-displacement, 218 June  
Magnetic Recording, E.B.U. Conference (News) 460 Nov.  
Mechanism of Magnetic Recording, I.E.E. Paper, 47 Feb.  
Metal Cone Loudspeaker, by F. H. Brittain, 440 Nov., 490 Dec.  
Orchestral Studio Design, by T. Somerville and H. R. Humphreys, 128 Apr.  
Pickup Transformers, Avoiding Hum in, (Correspondence) 103 Mar.  
Pre-recorded" (Correspondence) 269 July, 356 Sept.  
Recording Characteristics, B.S.R.A. Lecture 178 May  
Recording Characteristics, Too Many? (Correspondence) 309 Aug., 355 Sept., 419 Oct., 493 Dec.  
Single-Ended Push-pull Amplifier, 203 May  
Speech Reinforcement in St. Paul's Cathedral, by P. H. Parkin and P. H. Taylor, 54 Feb., 109 Mar.  
Television Sound Noise Limiters, by R. T. Lovelock, 339 Sept.  
Thorn Needles, Further Notes on, by S. Kelly, 243 June; A. M. Pollock, 244 June; (Correspondence) 269 July, 309 Aug.

Tone Control, Negative-Feedback, by P. J. Baxandall, 402 Oct.; Correction 444 Nov.  
Transient Response, Calculating, by Thomas Roddam, 292 Aug.

### TELEVISION

A.G.C. Circuit for Television, by G. F. Johnson, 424 Nov.  
Advisory Committee (Editorials) 291 Aug., 479 Dec.  
Amateur Television Progress, by M. Barlow, 371 Sept.  
Anglo-French Television (News) 270 July  
Australian Television Postponed (News) 191 May  
B.B.C. Charter (Editorials) 1 Jan., 291 Aug.; (News) 21 Jan.; Note, 304 Aug.  
Bandwidth of Television Receivers (Correspondence) 420 Oct., 457 Nov.  
Bankers' Television, 379 Sept.  
Bus-Bell Interference, 511 Dec.  
Calculating Transient Response, by Thomas Roddam, 292 Aug.  
Camera Tube, R.C.A., 448 Nov.  
Canadian Television (News) 313 Aug., 417 Oct.  
Cinema Television (News) 311 Aug.  
Colour Television (News) 22 Jan.  
Deflector-Coil Construction, by W. T. Cocking, 480 Dec.  
Educational Filmstrip, Story of Television, 140 Apr.  
Eyestrain, Television, 226 June  
Faulty Interlacing, by G. N. Patchett, 250 July, 315 Aug.; (Correspondence) 420 Oct., 457 Nov.  
Flat Television Magnifier, by N. A. de Bruyne, 502 Dec.  
French Colour Television Plans (News) 813 Aug.  
Ghosts, Television, by J. A. Hutton, 84 Mar.; (Correspondence) 145 Apr.  
I.E.E. Television Convention (News) 21 Jan., 101 Mar., 147 Apr.; (Editorial) 209 June; Summary of Papers, 210, 212 June  
Interference, Television (News) 311 Aug.  
International Television Committee (News) 147 Apr.  
— Standards, C.C.I.R., 296 Aug.  
Isle of Wight Television Site (News) 63 Feb.  
Kirk o'Shotts High-Power Television Transmitter Operating (News) 364 Sept.  
— to Manchester Television Relay, 170 May  
Line-Scan Circuit, by W. T. Cocking, 305 Aug.  
— Eliminator, by G. N. Patchett, 219 June  
Locating Television Pirates, 104 Mar.  
London—Paris Television Relay, 298 Aug.  
Low-Level Modulation, Wenvoe and Kirk o'Shotts Transmitters, 812 Dec.  
Millionth Television Licence (News) 21 Jan.  
New London Television Transmitter (News) 459 Nov.  
Noise Limiters for Television Sound, by R. T. Lovelock, 339 Sept.  
Projection Television versus Direct-Viewing, 435 Oct.  
Radio Politics (Editorial) 1 Jan.  
Schools Television Experiment (News) 147 Apr.; (Editorial) 209 June; (Correspondence) 309 Aug.  
Scottish Television Station, 172 May  
Sponsored Television (Editorials) 1 Jan., 291 Aug., 479 Dec. Note, 304 Aug.  
Spot, Oval (Correspondence) 20 Jan., 187 May, 228 June  
Suspended Television Feeder, Kirk o'Shotts and Wenvoe, 473 Nov.  
Swiss Television (News) 497 Dec.  
Television Booster Station, E. K. Cole, 514 Dec.  
— Receiving Aerials, by F. R. W. Stafford, 213 June, 264 July  
— Set Testing, by M. V. Callendar, 42 Feb.; (Correspondence) 146 Apr.  
— Society's Exhibition 1952, 45 Feb.; 1953, 495 Dec.  
— Stations Progress (News) 21 Jan.  
Transatlantic Television, Map, 408 Oct.  
U.S. Television, F.C.C. Ban Lifted (News) 270 July  
— Stations (News) 496 Dec.  
Underwater Television, 205 May, 221 June  
Unipole Television Aerial, 278 July  
Venezuelan Television Service (News) 313 Aug.  
Welsh Television Opening (News) 229 June

### TEST AND MEASUREMENT

Drying Out Transformers, by J. MacIntosh, 523 Dec.

Measuring High Resistance, by M. G. Scroggie, 236 June  
Meters, Modifying Surplus (Correspondence) 20 Jan.  
Microphony in Superhet Oscillators, by H. Stibbe, 504 Dec.  
Oscilloscope, Television, by W. Tusting, 233 June, 230 July; Correction (News) 364 Sept.  
Phase-angle Ellipse, 432 Oct.; (Correspondence) 458 Nov.  
R.F. Bridge, Experimenter's, by H. V. Sims, 196 May  
— Characteristics of Capacitors, by R. Davidson, 301 Aug.; (Correspondence) 419 Oct.; 457 Nov.  
Signal Tracer, "All-Dry", by E. J. Faulkner, 487 Dec.  
Television Set Testing, by M. V. Callendar, 42 Feb.; (Correspondence) 146 Apr.  
Testing Aerials, by Michael Lorant, 327 Aug.  
Two-range Test Oscillator, by H. B. Dent, 508 Dec.  
Units, More New (Correspondence) 19 Jan.  
— of Capacitance (Correspondence) 19 Jan., 187 May, 355 Sept., 420 Oct.  
Universal Meter Shunt (Correspondence) 19 Jan.  
Valve Voltmeter, by M. G. Scroggie, 14 Jan., 89 Mar.; (Correspondence) 146 Apr., 310 Aug.  
Why 47? by "Cathode Ray", 77 Feb.; (Correspondence) 146 Apr., 187 May

### TRANSMISSION

Army Communications, S.R.D.E., 353 Sept.  
Automatic Broadcasting, 449 Nov. Leslie and C. Gunn-Russell, 449 Nov.  
Business Radio, 116 Mar.  
Communication Theory Applications, Symposium, 445 Nov.  
Communications and Modern Flying (Editorial) 383 Oct.  
F.M. in Germany, 141 Apr.  
1400-Mc/s Radiophone, by J. B. Lovell Foot, 132 Apr.  
Harbour Radiophones (Editorial) 127 Apr.  
Information Theory, by "Cathode Ray", 365 Sept.  
— Delta Modulation, 427 Oct.  
— I.E.E. Discussion, 71 Feb.  
— Symposium (News) 271 July; (Editorial) 333 Sept.; Summary 445 Nov.  
Jargon, Guardians of Our (Editorial) 249 July  
Low-Level Modulation, Wenvoe and Kirk o'Shotts Transmitters, 512 Dec.  
Radio Picture Relay Reporting, 492 Dec.  
Scottish Television Station, 172 May  
Steering by Radio, I.E.E. Lecture, 176 May  
Television Booster Station, E. K. Cole, 514 Dec.  
Unattended Transmitters, Marconi, 492 Nov.  
— by J. R. Brinkley, 279 July; (Correspondence) 309 Aug., 419 Oct., 493 Dec.  
V.H.F. Broadcasting, B.B.C. Recommendations, 10 Jan.  
— German Network, 141 Apr.  
— Stockholm Conference, 433 Oct.  
— Radio, by E. G. Hamer, 519 Dec.  
Wick Radio, 472 Nov.

### VALVES

Cold-cathode Switching Tubes, E. A. R. Peddle, 421 Oct., 465 Nov.  
Germanium Crystal Valves, by T. H. Kinman, 29 Jan.  
How to Choose a Valve, by Thomas Roddam, 409 Oct.  
Mass-Producing Valve Bulbs, 278 July  
Noise, by "Cathode Ray", 199 May, 222 June  
Oxide Cathode Life, I.E.E. Paper, 76 Feb.  
Reliable Valves (Editorial) 83 Mar.; Article, by E. G. Rowe, 105 Mar.; (Correspondence) 146 Apr.  
Reliable Valves and the User, by E. G. Rowe, 377 Sept.  
"Trustworthy" Valves, by E. G. Rowe, 105 Mar.; (Correspondence) 146 Apr.  
Valve Life Testing, by R. Brewer, 239 June

### BOOKS AND PUBLICATIONS

Advanced Theory of Waveguides, L. Lewin, 34 Jan.  
Amplifiers: The Why and How of Good Amplification, G. A. Briggs and H. H. Garner (Review) 378 Sept.



Applied Electronics Annual 1952, Edited by R. E. Blaise, 494 Dec.  
 B.B.C. Annual Report 1951/52 (*Editorial*) 439 Nov.  
 B.B.C. Type "B" Disc Recording Feedback Cutterhead, 140 Apr.  
 B.S.I. Year Book 1952 (*News*) 272 July  
 Board of Trade Directory (*News*) 497 Dec.  
 C.A.B.M.A. Register (*News*) 497 Dec.  
 Development of the Guided Missile (*News*) 364 Sept.  
 Dimensions and Nominal Voltages of Batteries for Valve-Type Hearing Aids, B.S.966: 1951, 71 Feb.  
 Documents of the Vth Plenary Assembly of the C.C.I.R., 296 Aug.  
 Electric Wiring Regulations, I.E.E., 140 Apr.  
 Electrical Who's Who (*News*) 272 July  
 Electronic Measurements, F. E. Terman and J. M. Pettit, 494 Dec.  
 Electronic Music (*News*) 192 May  
 Elements of Radio Engineering, H. I. F. Peel, 494 Dec.  
 Examples in Electrical Calculations 1952, Admiralty, 494 Dec.  
 F.B.I. Register (*News*) 497 Dec.  
 Foundations of Wireless, M. G. Scroggie, 34 Jan.  
 Learning Morse, 400 Oct.  
 Measurement of the Thickness of Capacitor Paper (*News*) 497 Dec.  
 Measuring Television Interference, E. R. A. Report, 53 Feb.  
 Microphones, B.B.C. Engineering Training Department, 50 Feb.; Correction (*News*) 102 Mar.  
 New Kind of Radio Propagation at V.H.F. Observable over Long Distances, D. K. Bailey and others, 273 July  
 Physics as a Career, Norman Clarke, 494 Dec.  
 Plastics Progress (*News*) 232 June  
 Power Rating of Valve-Driven High-Frequency Induction Heating Equipment, B.S.1799, 195 May  
 Principles of Radio, Keith Henney and Glen A. Richardson, 494 Dec.  
 Proceedings of a Conference on Centimetric Aerials, H.M.S.O., 456 Nov.  
 Progress in Physics Vol. XV, 1952, Edited by A. C. Stickland, 494 Dec.  
 R.I.C. Specifications, 295 Aug.  
 R.S.G.B. Amateur Radio Call Book (*News*) 192 May  
 Radio Amateur's Handbook, A.R.R.L., 1952, 207 May  
 Radio as a Career, R.I.C. Pamphlet, 400 Oct.  
 Radio for Merchant Ships: Automatic Keying Device Specification (*News*) 232 June  
 Radio Interference Suppression, G. L. Stephens, 342 Sept.  
 Radio Research 1950, D.S.I.R. Report, 46 Feb.; 1951, 494 Dec.  
 Radiotelephony Handbook, Marconi Marine Communication Co., 458 Nov.  
 Resistor Colour Codes, B.S.1852: 1952, 378 Sept.  
 Resonant Cavity Magnetron, R. S. H. Boulding, 494 Dec.  
 Siting Direction-Finding Stations, D.S.I.R. Report, 136 Apr.  
 Sound Recording and Reproduction, J. W. Godfrey and S. W. Amos, 284 July  
 Storia Della Radio, Marchese Luigi Solari (*News*) 62 Feb.  
 Textbook on Sound, J. W. Winstanley, 494 Dec.  
 Trader Year Book 1952 (*News*) 190 May  
 Use of Radar at Sea, Edited by Capt. F. J. Wylie, 494 Dec.

Vacuum Technique, A. L. Reimann, 494 Dec.  
 Williamson Amplifier, 284 July  
 Wireless Fundamentals, E. Armitage, 494 Dec.  
 Wireless World Diary, 458 Nov.  
 World Radio Handbook for Listeners, 6th Edition (*News*) 192 May

#### ILLUSTRATIONS

B.S.R.A. Winning Exhibit for President's Trophy, 270 July  
 Bangay, R. D., 230 June  
 Bishop, H., 312 Aug.  
 Bowen, H. L., 496 Dec.  
 Cinema Television at Odeon, Leicester Square, 313 Aug.  
 Connelly, Dr. F. C., 230 June  
 Davies, William, 189 May  
 Davis, K. S., 190 May  
 Decca Radar Demonstration Unit, 271 July  
 Decca S.W. British Chain, Map, 338 Sept.  
 E.M.I. Magnetic Tape Recorder, 64 Feb.  
 Fraser, Sir Ian, 459 Nov.  
 Goldup, T. E., 363 Sept.  
 Jacob, Sir Ian, 460 Nov.  
 Keir, John, 148 Apr.  
 Kirk o'Shotts Television Transmitter, 101 Mar.  
 McGee, Dr. J. D., 102 Mar.  
 McLean, F. C., 312 Aug.  
 McMichael, The late Leslie, 23 Jan.  
 Marconi Transmitter in H.M.S. *Gothic*, 62 Feb.  
 Marconi's Business Radio Mobile Station, 149 Apr.  
 Marriott, G. A., 190 May  
 Megaw, Dr. E. C. S., 363 Sept.  
 Miller, W. E., 363 Sept.  
 Mullard Sub-miniature Valve, 497 Dec.  
 Multi-Keyboard Electronic Organ, 191 May  
 O.B. Transmitter and Aerial, 231 June  
 O'Kane, Dr. B. J., 461 Nov.  
 Orr-Ewing, C. I., opening R.S.G.B. Exhibition, 22 Jan.  
 R.I.C. Technical Writing Premium Presentation, 416 Oct.  
 Radio Equipment on *Stanley Angwin*, 314 Aug.  
 Rainbow Radio Front-Projection Television Receiver, 207 May  
 Slade, H. V., 190 May  
 Smith, G. Darnley, 190 May, 496 Dec.  
 Smith-Rose, Dr. R. L., 271 July  
 Solari, Marchese Luigi, 63 Feb.  
 Spagnoletti, P. H., 190 May  
 Stanley, C. O., 496 Dec.  
 Transatlantic Television Map, 408 Oct.  
 U.S. Presidential Train Radio Installation, 229 June  
 Welsh Television Map, 311 Aug.  
 Wrotham Field-Strength Map, 11 Jan.  
 Wynn, R. T. B., 312 Aug.

#### AUTHORS

ALDOUS, D. W., 320 Aug.  
 Amos, S. W. and Johnstone, G. G., 334 Sept., 428 Oct.  
 Attew, J. E., 114 Mar.  
 BARLOW, M., 371 Sept.  
 Baxandall, P. J., 402 Oct.  
 Bennington, T. W., 5 Jan., 121 Mar.  
 Bramslev, G., 469 Nov.  
 Brewer, R., 239 June  
 Brinkley, J. R., 279 July  
 Britain, F. H., 440 Nov., 490 Dec.  
 Bruyne, N. A. de, 502 Dec.

CALLENDAR, M. V., 42 Feb.  
 "Cathode Ray", 31 Jan., 65, 77 Feb., 117 Mar., 152 Apr., 199 May, 232 June, 259 July, 321 Aug., 365 Sept., 412 Oct., 452 Nov., 515 Dec.  
 Clements, D., 163 Apr.  
 Cocking, W. T., 305 Aug., 480 Dec.

DAVIDSON, R., 301 Aug.  
 Dent, H. B., 112 Mar., 275 July, 508 Dec.  
 "Diallist", 38 Jan., 80 Feb., 124 Mar., 166 Apr., 206 May, 246 June, 288 July, 330 Aug., 380 Sept., 436 Oct., 476 Nov., 526 Dec.

FAULKNER, E. J., 487 Dec.  
 Foot, J. B. Lovell, 132 Apr.  
 "Free Grid", 40 Jan., 82 Feb., 126 Mar., 168 Apr., 208 May, 248 June, 290 July, 332 Aug., 382 Sept., 438 Oct., 478 Nov., 528 Dec.

GUNN-RUSSELL, C. with Leslie, R. W., 449 Nov.

HAMER, E. G., 51 Feb., 519 Dec.  
 Heath, R. C., 435 Oct.  
 Heightman, D. W., 136 Apr.  
 Howie, John A., 159 Apr.  
 Humphreys, H. R. with Somerville, T., 128 Apr.  
 Hutton, J. A., 84 Mar.

IVALL, T. E., 137 Apr.

JOHNSON, G. F., 424 Oct.  
 Johnstone, G. G. with Amos, S. W., 334 Sept., 428 Oct.

KELLY, S., 243 June  
 Kinnell, T. H., 29 Jan.

LESLIE, R. W. and Gunn-Russell, C., 449 Nov.

Lorant, Michael, 327 Aug.  
 Lovelock, R. T., 339 Sept.

MACINTOSH, J., 523 Dec.  
 Marchant, E. W., 151 Apr.

PARKIN, P. H. and Taylor, P. H., 54 Feb., 109 Mar.

Patchett, G. N., 219 June, 250 July, 315 Aug.  
 Peddle, E. A. R., 421 Oct., 465 Nov.  
 Pollock, A. M., 244 June

RODDAM, Thomas, 292 Aug., 409 Oct.  
 Rowe, E. G., 105 Mar., 377 Sept.

SCROGGIE, M. G., 14 Jan., 89 Mar., 236 June  
 Sims, H. V., 196 May  
 Sinfield, L. F., 285 July  
 Somerville, T. and Humphreys, H. R., 128 Apr.

Spencer, J. G., 204 May  
 Stibbe, H., 504 Dec.  
 Trafford, F. R. W., 213 June, 264 July, 499 Dec.

TAYLOR, P. H., with Parkin, P. H., 54 Feb., 109 Mar.  
 Taylor, P. L., 25 Jan.  
 Tusting, W., 233 June, 280 July

URQUHART, D. F., 193 May

WALKER, A. H. B., 374 Sept.  
 Walker, P. J. with Williamson, D. T. N., 357 Sept.

Williamson, D. T. N., 173 May  
 Williamson, D. T. N. and Walker P. J., 357 Sept.

Winder, W., 406 Oct.