

INDEX

Vol. 29 (1936-7) — Vol. 38 (1945-6)

Note: The letter (S) indicates an article of one page or less.

A

	VOL.	PAGE.	VOL.	PAGE.
Abbott, G. A. O., and R. W. Palmer. A Mobile Automatic Telephone Exchange	32	1		
Accounting Machines, Hollerith, The Application of, to the Distribution of E.I.'s	32	94		
Accurate Method of Sub-Localising Cable Faults when no "Good" Wire is available, An	30	99		
Addey, F. Addition and Subtraction Logarithms	32	244		
Addey, F. Calculation of Great Circle Bearings	32	142		
Addey, F. Long Distance Position Finding by D.F.	34	94		
Addition and Subtraction Logarithms	32	244		
Additional Group Modulated Carrier Systems between Stranraer and Belfast	32	112		
Aerial Cable Lines—				
Part I. Straight Sections of Route	37	44		
Part II. Stayed Poles and Methods of Erecting the Cable	37	70		
Aerial Cable Route, Shifting a Main (S)	37	62		
Aerial Cable, Stainless Steel-Sheathed	36	107		
Aerial Cable Suspension by the Spinning Method	38	19		
Aerial Cabling (S)	29	123		
Aerial System at Rugby Radio Station, Main, Storm Damage to the	33	134		
Aerial System at Rugby Radio Station, Replacement of the Main	33	22		
Air Conditioning Plant, An	36	85		
Air Raid Damage to Post Office Telecommunications—				
Part I—Underground Plant	35	93		
Part II—Telephone Exchanges	35	126		
Part III—The Second Great Fire of London	36	20		
Part IV—Overhead Plant	36	46		
Air Raid Damage to Underground Plant (S)	33	145		
Air Raid Warning System, The	38	98		
Alkaline type C.E.M.F. Cells	34	9		
Alloys, Lead, for Cable Sheaths (S)	29	58		
Allsup, E. F. W., and T. A. Handy. Birmingham Trunk and Toll Exchange	29	314		
Alston, G. A., F. E. Bland, C. F. Perryman and C. E. Worthington. The Battle of the Atlantic and the Post Office	38	113		
Alternatives, Synthetic, to Natural Rubber, A Brief Survey of	37	11		
American Army Line Construction Tools, Some	36	53		
Amplifier, a Constant Volume, The Application of, to a Short Wave Single Sideband Transatlantic Radio Circuit	31	104		
Amplifier No. 32 and Associated Equipment, The New	34	60		
Anchoring of Submarine Cables (S)	36	124		
Andrews, W. E. T., and R. O. Boocock. A Route Distance Recorder	30	65		
Angle, Complex, Functions of a	29	23		
Anglo-Belgian and Anglo-French Cables (S)	29	219		
Anglo-Dutch Co-axial Cables	30	222		
Anglo-French and Anglo-Belgian Cables (S)	29	219		
Angwin, A. S. Appointment as Engineer-in-Chief	32	146		
Angwin, Sir A. Stanley. Foreword	38	33		
Angwin, Sir Stanley. I.E.E. Presidential Address (1943) (S)	36	123		
Announcing, Trunk Delay	35	73		
Anson, B. O. Regionalisation	29	245		
Anson, B. O. Retirement of (S)	31	150		
Apparatus for the Measurement of Insertion Phase Shift at Radio Frequencies	33	162		
Application of a Constant Volume Amplifier to a Short Wave Single Sideband Transatlantic Radio Circuit, The	31	104		
Application of Carrier Systems to Submarine Cables, The	35	79, 121		
Application of Hollerith Accounting Machines to the Distribution of Engineering Instructions, The	32	94		
Application of Telephone Apparatus to Electric Lifts, The	36	97		
Application of 12-Circuit Carrier Telephony to Existing Cables, The	34	12		
Application of Welding to Repair Work, The	35	50		
Approximate Formulæ for the Calculation of Attenuation from Open and Closed Impedances	38	52		
Area Reorganisation, Birmingham (S)	30	162		
Arman, L. T., and P. R. Hutton-Penman. The Application of a Constant Volume Amplifier to a Short Wave Single Sideband Transatlantic Radio Circuit	31	104		
Armoured Cable, Laying, across Moorland (S)	32	153		
Arms, Wooden Pole (S)	30	137		
Army Telephones, Improvements in (S)	38	101		
Arnold, C. W. Flameproof Telephone Apparatus	37	81		
Artificial Life Tests of Cords and Flexible Conductors	32	130		
Artificial Voice and a Weighted Transmission Measuring Set, The Measurement of Crosstalk in Telephone Apparatus with an	38	48		
Aspects of Crosstalk between Unbalanced Circuits, Some	36	14		
Atherton, W. S. A New Power Plant for P.M.B.X.'s	32	212		
Atlantic, The Battle of, and the Post Office	38	113		
Atomic Physics, An Outline of the Principles of	29	48, 105, 203, 322		
Attenuation and Impedance of Single Coaxial Cables, The	34	66		

	VOL.	PAGE.		VOL.	PAGE.
Attenuation Equaliser, A New Standard ...	37	22	Birchall, W. R. Appointed Deputy Director-General (S) ...	29	243
Attenuation from Open and Closed Impedances, Approximate Formulæ for the Calculation of ...	38	52	Bird, F. G. Improved Mountings ...	35	97
Australian Commonwealth Communications	31	62	Birds, Pole Damage by (S) ...	35	140
Authors, Notes for the Guidance of (S) ...	32	63	Birmingham Area Reorganisation (S) ...	30	162
Automatic Conversion Scheme, Glasgow (S) ...	33	198	Birmingham, Centralised "ENG" Service, Testing and Maintenance Control at ...	30	304
Automatic Door Opening Gear (S) ...	30	36	Birmingham, Civic Opening of Telephone House, (January 1937) ...	30	73
Automatic Exchange Developments in South Africa : Automatic Repeat Metering ...	31	216	Birmingham-London Cable, The First ...	31	147
Automatic Exchange No. 13, The Unit ...	29	141	Birmingham, Passenger Lifts at Telephone House, (January 1937) ...	30	73
Automatic Exchange No. 14, The Unit ...	31	41	Birmingham Regional Training School (S) ...	31	323
Automatic Level Recorder, The ...	36	103	Birmingham Trunk and Toll Exchange ...	29	314
Automatic Teleprinter Switching ...	29	217	Blair, D. C. Protection of Post Office Circuits in Northern Ireland ...	30	121
Auto-Telephony, Retrospective—in the Provinces ...	31	321	Bland, F. E., C. F. Perryman, C. E. Worthington and G. A. Alston. The Battle of the Atlantic and the Post Office ...	38	113
Ayers, E. W., and H. Stanesby. Some Aspects of Crosstalk between Unbalanced Circuits	36	14	Blois, W. H., and J. M. Fleming. A Delayed-Action Lever Type Key ...	38	16
Ayers, E. W., and H. E. Stevens. Multi-phone Working ...	33	60	Bocock, W., and G. H. Walton. Loch Awe Submarine Cables ...	30	235
B					
Baker, E. C. Air Raid Damage to Post Office Telecommunications ...	35	93, 126	Bomber Lines, The ...	38	105
	36	20, 46	Bombs, Buried, Location of (S) ...	38	131
Baker, E. C. Young People's Telephone Exhibition ...	30	61	Bond, F. C., and C. E. Richards. Damage to Lead-Sheathed Cables by Caterpillars	29	239
Baldock Frequency Control Station ...	33	105	Bocock, R. O., and W. E. T. Andrews. A Route Distance Recorder ...	30	65
Baldock Radio-Telephone Receiving Station	32	256	Booth, C. F., and C. F. Sayers. The Production of Quartz Resonators for the London-Birmingham Coaxial Cable System ...	31	245
Baldwin, F. G. C., Retirement of (S) ...	31	311		32	7, 88
Band Filter, A Narrow, using Crystal Resonators ...	33	176	Booth, C. F., and F. J. M. Laver. Temperature Control for Oscillators of Stable Frequency ...	35	8
Band-Stop Filter, A Resistance Compensated	33	82	Booth, C. F., and G. Gregory. Baldock Frequency Control Station ...	33	105
Bangor, The New Telegraph Terminal at ...	29	327	Booth, C. F., and G. Gregory. The Generation and Distribution of a Standard 1 kc/s Synchronising Signal ...	34	156
Barker, H., and M. R. Shearing. Telephone Communications with the Scilly Islands	31	101	Bourdeaux, N. and E. F. S. Clark. Micro Wave Demonstration Equipment ...	30	313
Barnett, H. E., and W. A. H. Venus. The Application of Hollerith Accounting Machines to the Distribution of Engineering Instructions ...	32	94	Bourne, K. W. A Carrier-Frequency Heterodyne Oscillator ...	35	65
Barron, D. A. Post Office Cabling in the Mersey Tunnel ...	32	79	Bradford New Auto Exchange ...	32	154
Barton, A. L. Centralised "ENG" Service, Testing and Maintenance Control at Birmingham ...	30	304	Bray, P. R. Approximate Formulæ for the Calculation of Attenuation from Open and Closed Impedances ...	38	52
Batey, T. W. Colourdex Visual System of Works Control ...	29	70	Bray, W. J., and W. R. H. Lowry. A New Short-Wave Transatlantic Radio Receiver	32	24
Battery Rooms, Sulphuric Acid Spray in and near (S) ...	29	234	Breaking Machines, Concrete, Portable Petrol Driven Drills and ...	29	23
Battery Vehicles for Postal Work, Electric ...	37	48	Brent, W. H., and A. H. Brown. Buried Cables ...	35	41
Battle of the Atlantic and the Post Office, The ...	38	113	Brett, C. W. The Application of Welding to Repair Work ...	35	50
Bawtree, K. O. An Air Conditioning Plant	36	85	Bridge, Chelsea, Rebuilding of ...	30	252
Beak, K. L. Special Machines and Tests Devised to facilitate the Mechanical Examination of Materials ...	33	88	Bridge, Menai Suspension, Reconstruction of the ...	32	75
Beale, C. E. Automatic Exchange Developments in South Africa : Automatic Repeat Metering ...	31	216	Brief Survey of Synthetic Alternatives to Natural Rubber, A ...	37	11
Bearings, Great Circle, Calculation of ...	32	142	Bristol Maintenance Experiment (S) ...	29	342
Beastall, J. G. Bristol Station Sorting Office Conveyors ...	31	117	Bristol Station Sorting Office Conveyors ...	31	117
Beastall, J. G. Passenger Lifts at Telephone House, Birmingham ...	29	280	British Association 1937 Meeting (S) ...	30	240
Beat-Frequency Oscillator, A Wide-Range	35	28	Broadcasting System, News (S) ...	29	37
Belfast and Stranraer, Additional Group Modulated Carrier Systems between ...	32	112	Broadcasting, Wire ...	31	213
Belfast-Stranraer Cable Carrier System, The	31	23	Broad, E. R., and H. Stanesby. A Narrow Band Filter using Crystal Resonators ...	33	176
Belfast-Stranraer 9-Circuit Ultra-Short Wave Radio Telephone System, The ...	31	33	Broad, E. R., and H. Stanesby. Channel Filters employing Crystal Resonators ...	31	254
Berkeley, G. S. Traffic and Delay Formulæ	29	188	Broad, E. R., H. Stanesby and R. L. Corke. Calculation of Insertion Loss and Phase Change of 4-Terminal Reactance Networks ...	35	88, 111
Bickley, H. D. A Note on Amplitude, Phase and Frequency Modulation ...	34	42	Broadhurst, J. H. The 3,000-type Latching Relay ...	33	136

	VOL.	PAGE.
Brockbank, R. A., and C. F. Floyd. The Unit Bay 1B Coaxial Cable Transmission System	38	43, 82
Brockbank, R. A. The Attenuation and Impedance of Single Coaxial Cables	39	14, 64
Brocklesby, C. Retirement of (S)	34	66
Brogden, A. E. Centralised Routiner and Maintenance Control in Automatic Exchanges	31	231
Brook H. and D. W. Cherry. Direct Underground Distribution in Residential Areas	30	58
Brown A. H., and W. H. Brent. Buried Cables	30	152
Brown, H. P. Australian Commonwealth Communications	35	41
Brown, R. C. C. The Maintenance Aspect of Overhead Construction	31	62
Buildings, Large, Electrical Services in	30	56
Buildings, Modern, Wiring of (S)	31	183
Burgess, A. G., and L. E. Ryall. A Simple Transmission Measuring Equipment	30	254
Buried Cables	30	52
Burr, A. H. Franking (Postage Meter) Machines	35	41
Burr, A. H. The Application of Telephone Apparatus to Electric Lifts	33	156
	36	97

C

Cable. Armoured, Laying across Moorland (S)	32	153
Cable, Coaxial, Manchester-Leeds-Newcastle	38	94
Cable, Coaxial (S)	31	158
Cable Creepage, The Use of the Chain Puller in Cases of (S)	38	29
Cable Drum Trailer, A "Town-Type" (S)	30	214
Cable Fault at Shoreham-by-Sea (S)	32	265
Cable Faults (S)	33	197
Cable. Interruption, Erection of, in Unusual Circumstances (S)	33	145
Cable Layout in Manholes and Cable Chambers, Modern	29	29
Cable, Lead Covered, Attacked by Wood Wasp (S)	38	27
Cable Lines, Aerial	37	44, 70
Cable, Nevin-Howth, (1938)	31	239
Cable Route, Aerial, Shifting a Main (S)	37	62
Cable Route, Coaxial (S)	33	198
Cable Sheaths, Lead Alloys for (S)	29	58
Cable Splicing and Reconditioning	38	22
Cable, Submarine, across the Duddon Estuary (S)	32	74
Cable, Submarine, Landing of, at Dartmouth (S)	31	237
Cable Suspension, Aerial, by the Spinning Method	38	19
Cable Test—London	36	51
Cable Transmission System, The Unit Bay 1B Coaxial	38	43, 82
Cables and Feeders, High Frequency, Measurements on	39	14, 64
Cables, Anglo-Belgian and Anglo-French (S)	36	37, 76
Cables, Armoured, Localisation of Sheath Punctures in by CO ₂ Gas	29	219
Cables, Buried	37	116
Cables, Diversion of the Manchester-Sheffield (S)	35	41
Cables, Laying and Cleating in a Difficult Situation	36	93
	30	160

	VOL.	PAGE.
Cables, Lead Sheathed, Damage to by Caterpillars	29	239
Cables, Sea—St. Margaret's Bay	32	71
Cables, Subaqueous, across the River Trent (S)	35	38
Cables, Submarine, Anchoring of (S)	36	124
Cables, Switchboard, Electrically-heated Waxing Baths for (S)	29	236
Cables, 12-Channel Carrier, The Effect on Crosstalk of Repairs to	37	54
Cables, 12-Channel Carrier, The Provision of Music Channels on	31	280
Cables, 12-Circuit Carrier, Group Working on (S)	32	137
Cables, 12-Circuit Carrier—Temporary Intermediate Repeater Stations (S)	32	51
Cabling, Aerial (S)	29	123
Cabling Operation, An Unusual (S)	29	162
Cabling, Post Office, in the Mersey Tunnel	32	79
Calculation of Attenuation from Open and Closed Impedances, Approximate Formulae for the	38	52
Calculation of Great Circle Bearings	32	142
Calculation of Insertion Loss and Phase Change of 4-Terminal Reactance Networks	35	88, 111
Call Formulae, Delayed, when Calls are served in Random Order	35	53
Call Offices	29	178
Call Service, Emergency Telephone (S)	29	334
Capacitance Networks, Simplification of Cable	36	82
Carbon Resistors. The Production of Fixed Carr, G. E. Special Events—Telegraph Arrangements	36	6
Carrier Cables, 12-Channel, The Effect on Crosstalk of Repairs to	32	174
Carrier Cables, 12-Channel, The Provision of Music Channels on	37	54
Carrier Cables, 12-Circuit, Group Working on (S)	31	280
Carrier Cables, 12-Circuit, Group Working on (S)	32	137
Carrier Cables, 12-Circuit, —Temporary Intermediate Repeater Stations (S)	32	51
Carrier Equipment, First Installations of 1+4 (S)	31	200
Carrier Frequency Heterodyne Oscillator, A	35	65
Carrier Frequency Synchronisation	33	75
Carrier Frequency Synchronisation (S)	32	223
Carrier System, Cable, The Belfast-Stranraer	31	23
Carrier System No. 3	29	152
Carrier System No. 4	29	226, 294
Carrier System No. 7	34	101, 161
Carrier Systems, Additional Group Modulated, between Stranraer and Belfast	32	112
Carrier Systems, A Group Inverter for 12-Circuit	33	183
Carrier Systems, The Application of, to Submarine Cables	35	79, 121
Carrier System, The Nevin-Dublin, for Telephony and V.F. Telegraphs	32	118
Carrier Telephone System for the Services, A Five-Channel	38	1
Carrier Telephony	29	34, 156
		220, 329
Carrier Telephony, The Application of 12-Circuit, to Existing Cables	34	12
Carter, Col. H. Construction Standards for Subscribers' Distribution in Suburban Areas	29	200
Carter, Col. H. Promotion to Staff Engineer (S)	29	74
Carter, Col. H. Transfer to South Wales District (S)	30	246
Carter, F. C., and C. G. A. McDonald. Electrical Services in Large Buildings	31	183
Carter, F. C. The Production of Fixed Carbon Resistors	36	6

	VOL.	PAGE.		VOL.	PAGE.
Carter, F. C. The Production of Magnetic Laminations	36	65	"Chopped Signal" Vacuum Tube Generator with Good Voltage Regulation, A	32	104
Carter, R. O., and D. C. Walker. Noise-Eliminating Unit for Junction Circuits exposed to Power Induction	33	186	Cinematography, High Speed	31	293
Carter, R. O., and D. L. Richards. Principles of Design of Smoothing Chokes	34	118	Circuit Laboratory, The Post Office	29	53
Carter R. O., F. O. Morrell and A. N. McKie. A Recent Development in Telegraph Repeaters for Submarine Cables	38	34	Civic Centre Telephone Installations, Newport (Mon.)	33	100
Cast Joints in Duct Lines (S)	34	172	Civic Opening of Telephone House, Birmingham (January, 1937)	30	73
Casterton, E. J. The Post Office and Public Address	34	26	Clarke, E. F. S., and N. Bourdeaux, Micro Wave Demonstration Equipment	30	313
Caterpillars, Damage to Lead Sheathed Cables by	29	239	Clarke, E. F. S., and R. F. J. Jarvis. Apparatus for the Measurement of Insertion Phase Shift at Radio Frequencies	33	162
Cathode Ray Impulse Measuring Equipment, A	33	149	Clarke, E. F. S., and R. F. J. Jarvis. A Wide-Range Beat-Frequency Oscillator	35	28
Cathode Ray Oscilloscope, A Compact Two-Unit	36	1	Classification of Information, The Universal Decimal	32	56
Catt, L. H. Alkaline type C.E.M.F. Cells	34	9	Clayton, W., and A. J. C. Henk. The Unit Automatic Exchange No. 14	31	41
C.C.I.F.: Meeting of the Sub-Committees, London (December 1938)	32	52	Claxton, H. L., and W. Woodcock. The Test Desk Serving Metropolitan, National and London Wall Exchanges... ..	29	135
C.C.I.F. Rapporteurs' Meeting at Oslo (June 1938)	31	205	Cleating and Laying Cables in a Difficult Situation	30	160
C.C.I.F., The International Telephone Conference in London (February, 1936)	29	293	Clock, The Speaking	29	261
C.C.I.F., Xith Plenary Assembly, Copenhagen (June, 1936)	29	214	Coates, A. G. Localisation of Sheath Punctures in Armoured Cables by CO ₂ Gas	37	116
Cells, Alkaline type C.E.M.F.	34	9	Coaxial Cable, Manchester-Leeds-Newcastle	38	94
Cement, The Production of Portland	30	200	Coaxial Cable Route (S)	33	198
C.E.M.F. Cells, Alkaline type	34	9	Coaxial Cable (S)	31	158
Central Telegraph Office, The Equipping of the Reconstructed	38	11	Coaxial Cable System, The London-Birmingham	30	206, 270
Centralised "ENG" Service, Testing and Maintenance Control at Birmingham	30	304	Coaxial Cable System, The Production of Quartz Resonators for the London-Birmingham	31	245
Centralised Routiner and Maintenance Control in Automatic Exchanges	30	58	Coaxial Cable Transmission System, The Unit Bay 1B	38	43, 82
Chain Puller, The Use of, in Cases of Cable Creepage, (S)	38	29	Coaxial Cables, Anglo-Dutch	30	14, 64, 222
Chairman, Board of Editors, Foreword to Victory Number by the	38	97	Coaxial Cables, Formulae for the Calculation of the Theoretical Characteristics and Design of	30	138
Channey, R. M. Anglo-Dutch Coaxial Cables	30	222	Coaxial Cables, The Attenuation and Impedance of Single	34	66
Channey, R. M. Promotion to Staff Engineer (S)	30	68	Coaxial Pair, Note on the Resistance Noise in a	32	61
Chandler, W. W., and B. M. Hadfield. A Cathode Ray Impulse Measuring Equipment	33	149	Cohen, B. S., Retirement of Captain (S)... ..	31	310
Chandler, W. W., and B. M. Hadfield. An Impulse Generator	34	31	Collard, J., London's Television Twin Cable Links	30	215
Changeover Equipment at King Edward Building Sub-station, Modifications to the Automatic Power Supply	36	10	Collett, W. A. Call Offices	29	178
Channel Filters Employing Crystal Resonators	31	254	Collins, J. H., and C. G. Grant. Remote Control of a Teleprinter Broadcast Switchboard	37	86
Channel Islands Communications and the War	38	102	Colourdex Visual System of Works Control	29	70
Channels, Music	31	276	Coloured Telephones, Diakon, a New Material for	30	292
Chapman, R. H., and J. S. Groome. The Development of 2,000 type Selector Circuits	29	87	Combridge, J. H. The Development of Stamp-Selling Machines in the British Post Office	30	18
Chapman, S. D. A New Rectifier Unit	37	118	Comité Consultatif International Téléphonique: Meeting of the Sub-Committees, London (December 1938)	32	52
Charges, Telephone, (Inland Service), The Financial Effects of Recent Reductions in	32	165	Commission (I.E.C.) The International Electro-Technical (June 1938) (S)	31	206
Charging Sets, Transportable Battery, for Emergency Purposes (S)	31	227	Commons, House of, Call Offices (S)	31	73
Chasmar, W. P., and H. E. Morrish. The Post Office Work in Conjunction with the Finchley Road and Swiss Cottage Metropolitan Railway Improvements	32	39	Communications, Fighter Command	38	109
Chelsea Bridge, Rebuilding of	30	252	Communications for the Invasion Armies, Post Office Cable	38	136
Cherry, D. W. and H. Brook. Direct Underground Distribution in Residential Areas	30	152	Compact Two-Unit Cathode Ray Oscilloscope, A	36	1
Cherry, D. W. Effect on Crosstalk of Repairs to 12-Channel Carrier Cables, The	37	54	Compandor Equipment for Trunk Circuits, A Simplified	33	120
Chokes, Principles of Design of Smoothing	34	118	Compressor and Expander, Volume Range. The Reduction of Crosstalk on Trunk Circuits by the Use of the	32	32

	VOL.	PAGE.
Detection of Poisonous Gases in Underground Workings, The ...	30	110
Development of a New Wheatstone Transmitter, The ...	37	7
Development of Stamp-Selling Machines in the British Post Office, The ...	30	18
Development of 2,000 type Selector Circuits, The ...	29	87
Development Plant, Local Line ...	32	200
Devereux, R. C., and C. N. Smith. Replacement of London Toll Exchanges ...	35	105
D.F., Long Distance Position Finding by ...	34	94
Diagram Corner Stamp, Evolution of the Standard (S) ...	33	126
Diakon—A New Material for Coloured Telephones ...	30	292
Dial comes to Carisbrook, The (S) ...	31	74
Dialling Facilities in the London Director Area, Extended ...	36	114
Dialling over Long Junctions, A Differentiated Impulse System of ...	31	108
Diesel Generating Installation, A 1,000 kW ...	37	75
Differential Condensers and Resistors, A Note on ...	29	319
Differentiated Impulse System of Dialling over Long Junctions, A ...	31	108
Diplex Transmission, A Novel System of ...	30	15
Direct Underground Distribution in Residential Areas ...	30	152
Director-General, Appointment of Sir Thomas Gardiner as (S) ...	29	243
Director System, Glasgow ...	34	51
Distortion, Non-Linear, of Music Channels with Particular Reference to the Bristol-Plymouth System ...	32	45
Distribution of E.I.'s, The Application of Hollerith Accounting Machines to the ...	32	94
Distribution of Power in 2,000-type Exchanges ...	33	71
Distribution of the Speaking Clock Service ...	37	101
Diversion of the Manchester-Sheffield Cables (S) ...	36	93
Division, Frequency, without Free Oscillation ...	35	62
Dixon, E. J. C. Recruitment and Training of Post Office Workmen ...	29	94
Door Opening Gear, Automatic (S) ...	30	36
Douglas Ultra-Short Wave Radio Link (S) ...	32	217
Doust, J. F., and H. J. Josephs. A Simple Introduction to the use of Statistics in Telecommunications Engineering ...	34	36, 79 139, 173
Downes, A. D. W. Rubber ...	33	95
Draper, B., and W. Cornell. Melbourne City West Exchange ...	32	237
Drills and Concrete Breaking Machines, Portable Petrol Driven Rock ...	29	196
Drum Trailer, A "Town-Type" Cable (S) ...	30	214
Duct, a 3-way, Slewing and Lowering ...	33	99
Duct Laying across the River Eamont (S) ...	32	265
Duct, Laying 3-in. S.A., with a Mechanical Excavator (S) ...	34	147
Duct Lines, Cast Joints in (S) ...	34	172
Duct Obstruction, Unusual (S) ...	36	62
Duct Route in Central London, A New 54-way ...	31	142
Duct Track Failure on A.5 Road (S) ...	37	122
Ducts and Cables, Slewing and Lowering existing ...	31	201
Ducts, An Unusual Formation of Sediment in (S) ...	29	166
Duddell Oscillograph, The Study of Small Mechanical Movements with the ...	31	112
Duerdoth, W. T., and R. J. Halsey. The First Submerged Repeater ...	37	33
Dunk, W. G., and C. F. Mills. A Mobile Post Office ...	29	208
Dust Core Materials, The Measurement of the Loss Coefficients of Magnetic ...	35	46
Dust Cores, Magnetic ...	37	1

E

	VOL.	PAGE.
Eades, R. A., and W. J. Sulston. Recent Developments in W.D. Telephone Switchboards ...	38	70
Eamont, River, Duct Laying across the (S) ...	32	265
Earth as an Electrical Conductor, A Note on the Behaviour of the ...	36	118
Easterling, C. E., and S. G. Lewis. The Teleprinter Ancillary ...	29	119
Echo Effects in relation to the European Trunk Switching Plan ...	31	16
Echo-Suppressor, A Fast Operating Differential ...	30	186
Echo-Suppressors, The Operation and Utilization of ...	32	247
Economic Cost Comparisons, Engineering, The Treatment of Displaced Plant in ...	31	221
Economic Design of Manholes, The— Part I.—Estimation of Loads ...	34	1
Part II.—Reinforced Concrete Theory ...	34	85
Part III.—Design of a Typical Manhole ...	34	133
Edwards, A. G., and J. A. Lawrence. The Mechanical Impulse Regenerator ...	30	261
Edwards, J. J. Portable Petrol Driven Rock Drills and Concrete Breaking Machines ...	29	196
Effect of Noise and Interfering Signals on Television Transmission, The ...	32	193
Effect on Crosstalk of Repairs to 12-Channel Carrier Cables, The ...	37	54
E.I.'s, The Application of Hollerith Accounting Machines to the Distribution of ...	32	94
Electric Battery Vehicles for Postal Work ...	37	48
Electric Lifts, The Application of Telephone Apparatus to ...	36	97
Electric Wax Heater, An ...	31	225
Electrical Services in Large Buildings ...	31	183
Electrically-Heated Waxing Baths for Switchboard Cables (S) ...	29	236
Electrolytic Action, Insulating Gaps as a Remedy to ...	33	115
Elevator, A Vertical Mails ...	36	33
Eliminating Unit, Noise, for Junction Circuits exposed to Power Induction ...	33	186
Ellen, L. W., and S. C. Gordon. A New Subscribers' Intercommunicating Table Telephone Set ...	33	39
Emergency Purposes, Transportable Battery Charging Sets for (S) ...	31	227
Emergency Telephone Call Service (S) ...	29	334
Emission-Type Photo-Electric Cells ...	36	43
Empire Exhibition, Bellahouston Park, Post Office Pavilion at the ...	31	85
Empire Exhibition (1938), The (S) ...	31	159
Endecott, A. H., and A. G. Freestone. Post Office Pavilion at the Empire Exhibition, Bellahouston Park ...	31	85
Engineer-in-Chief's Library, Some Notes on the ...	36	71
Engineering Instructions, The Application of Hollerith Accounting Machines to the Distribution of ...	32	94
Enoch Hill (Portpatrick) Ultra-Short Wave Station (S) ...	29	338
Epps, H. F. Safeguarding Telecommunications in Wartime ...	38	127
Equaliser, A New Standard Attenuation ...	37	22
Equalisers, Constant Impedance: Simplified Method of Design and Standardisation ...	32	204
Equalising the Frequency Characteristic of a Telephone Transmitter, A Method of ...	31	299
Equipment for Cutting Steel and Wrought Iron Pipes containing Working Cables ...	34	184
Equipping of the Reconstructed Central Telegraph Office, The ...	38	11
Erection of Double-Spliced 113-ft. Poles (S) ...	37	61
Essential Characteristics of Television Circuits, The ...	32	224

	VOL.	PAGE.		VOL.	PAGE.
European Trunk Switching Plan, Echo Effects in relation to the ...	31	16	Fire at Torcross (Devon) Telephone Exchange (S) ...	29	77
European Trunk Switching Plan, Problems involved in the Preparation of an ...	30	32	Fire Brigade Headquarters, London, Provision of Equipment at (S) ...	30	253
Euston Exchange (S) ...	29	339	Fire Extinction in Telephone Exchanges ...	30	241
Evans, G. T., and J. E. Luckhurst. Baldock Radio-Telephone Receiving Station ...	32	256	Fire-Refined Copper, Copper Wire Manufactured from (S) ...	29	52
Examination of Materials, Special Machines and Tests devised to facilitate the Mechanical ...	33	88	First Installations of 1+4 Carrier Equipment (S) ...	31	200
Excavator, Mechanical, Laying 3-in. S.A. Duct with a (S) ...	34	147	First London-Birmingham Cable, The ...	31	147
Exchange, A Mobile Automatic Telephone ...	32	1	First Submerged Repeater, The ...	37	33
Exchange, Bradford New Auto ...	32	154	Five-Channel Carrier Telephone System for the Services, A ...	38	1
Exchange, Euston (S) ...	29	339	Flameproof Telephone Apparatus ...	37	81
Exchange, Hayes, Extension of (S) ...	38	60	Fleming, J. M., and W. H. Blois. A Delayed-Action Lever Type Key ...	38	16
Exchange, Inauguration of the First Mobile Unit Automatic (S) ...	31	285	Flexible Conductors and Cords, Artificial Life Tests of ...	32	130
Exchange, Mobile (S) ...	29	326	Floods and Lightning, Serious Damage in West Country due to (S) ...	31	237
Exchange, Removal of a Unit Automatic (S) ...	37	28	Flowers, T. H., B. M. Hadfield, and H. S. Smith. Signalling on Trunk Circuits: Introduction of Two-Frequency Working ...	29	41
Exchange, Scillonia Telephone ...	31	75	Floyd, C. F., and R. A. Brockbank. The Unit Bay 1B Coaxial Cable Transmission System ...	38	43, 82
Exchange, Telephone, Fire at Torcross (Devon) (S) ...	29	77	Fluorescent Lighting ...	37	14, 64
Exchange Transfers (S) ...	33	197	Fogg, G. H., and R. F. J. Jarvis. Formulae for the Calculation of the Theoretical Characteristics and Design of Coaxial Cables ...	30	65
Exchanges, London Toll, Replacement of ...	35	105	Foreword by Engineer-in-Chief (S) ...	38	138
Exchanges, New Automatic (London) ...	31	318	Foreword to Victory Number by the Chairman, Board of Editors (S) ...	38	33
Exchanges, Telephone, The Supply of Power for ...	32	184	Formulae for the Calculation of Attenuation from Open and Closed Impedances, Approximate ...	38	97
Exhibition, The Empire (1938) ...	31	85, 159	Formulae for the Calculation of the Theoretical Characteristics and Design of Coaxial Cables ...	30	52
Exhibition, Young People's Telephone (1936) ...	30	61	Forth Bridge Cables ...	30	138
Expander and Compressor, Volume Range, The Reduction of Crosstalk on Trunk Circuits by the Use of the ...	32	32	Franking (Postage Meter) Machines ...	33	105
Extended Dialling Facilities in the London Director Area ...	36	114	Freestone, A. G., and A. H. Endecott, Post Office Pavilion at the Empire Exhibition, Bellahouston Park ...	31	156
Extension of Hayes Exchange (S) ...	38	60	Frequency Control Station, Baldock ...	33	85
External Modernisation of Valentia Radio Station, The ...	29	285	Frequency Division without Free Oscillation ...	35	105
F					
Failure, Duct Track, on A.5 Road (S) ...	37	122	Frequency Error Recorder, A Mains ...	33	62
Failure, Machynlleth Power Station (S) ...	30	252	Frequency Synchronisation, Carrier (S) ...	32	171
Fairweather, A. A Voice-Operated Relay for Use on Long Distance Private Wires ...	33	66	Frequency Synchronisation, Carrier ...	33	223
Fairweather, A., and F. C. Williams. A "Chopped Signal" Vacuum Tube Generator with Good Voltage Regulation ...	32	104	Frome, N. F. Notes on the Design of Communication Equipment (Tropical) ...	29	75
Fairweather, A., and F. C. Williams. The Stability and Performance of the Single "Rectified Reaction" Stage ...	30	294	Frost, P. B., and F. E. A. Manning. C.C.I.F. XIth Plenary Assembly at Copenhagen, June, 1936 ...	29	275
Fast Operating Differential Echo-Suppressor, A ...	30	186	Frost, P. B. Present Tendencies of Power Development and their Repercussions upon Telecommunication Systems ...	30	214
Fatigue Testing of Wire, The ...	29	237	Frost, P. B. Promotion to Staff Engineer (S) ...	30	1
Fault, Cable, at Shoreham-by-Sea (S) ...	32	265	Fuels for Road Vehicles. A Review of War-Time ...	34	247
Fault, Lift, An Unusual (S) ...	38	61	Fulcher, H. W. Promotion to Staff Engineer (S) ...	31	151
Fault Localisation with Gas-Filled Cables ...	30	237	Functions of a Complex Angle ...	29	312
Faults, Cable (S) ...	33	197	Furieux, E. G., and E. M. Richards. The Nevin-Dublin Carrier System for Telephony and V.F. Telegraphs ...	32	23
Feeder Lines, Radio, Simple Transmission Theory Relating to the Matching of ...	31	210	G		
Feeders and Cables, High Frequency, Measurements on ...	36	37, 76	Gardiner, Sir Thomas. Appointed Director-General (S) ...	29	243
Fighter Command Communications ...	38	109	Gas-Filled Cables, Fault Localisation with ...	30	237
Filter, A Resistance Compensated Band-Stop ...	33	82	Gel, Silica ...	29	241
Filter using Crystal Resonators, A Narrow Band ...	33	176	Gemmell, W. T. The Transorma Letter Sorting Machine ...	29	16
Filters, Crystal ...	37	113	7		
	38	7,			
	39, 76	135			
Filters in Parallel. The Operation of ...	32				
Financial Effects of Recent Reductions in Telephone Charges (Inland Service), The ...	32	165			
Finchley Road and Swiss Cottage Metropolitan Railway Improvements, The Post Office Work in Conjunction with the ...	32	39			
Finlason, W. E. Mains Frequency Error Recorder, A ...	33	171			

	VOL.	PAGE.
Generating Installation, A 1,000-kW Diesel	37	75
Generating Plant, A Stand-by	35	115
Generation and Distribution of a Standard 1 kc/s Synchronising Signal, The ...	34	156
Generator, An Impulse	34	31
Generator, "Chopped Signal" Vacuum Tube, with Good Voltage Regulation, A ...	32	104
Gerrard, Old and New	30	328
Gerry, P. R. Aerial Cable Lines	37	44, 70
Gerry, P. R. An Electric Wax Heater ...	31	225
Gill, A. J. Foreword to Victory Number (S)	38	97
Gill, A. J. Promotion to Asst. E.-in-C. (S)	31	151
Gill, O. W., L. E. Magnusson and E. A. Speight. The Speaking Clock	29	261
Glasgow, Automatic Conversion Scheme (S)	33	198
Glasgow Director System	34	51
Glasgow, Railway Tunnel Crossing (S) ...	31	240
Glazier, E. D. The Variation of the Hold- ing Times of Telephone Calls	30	46
Glover, D. W. A Brief Survey of Synthetic Alternatives to Natural Rubber	37	11
Glover, D. W., and C. E. Richards. The Restoration of Telephone Apparatus affected by Enemy Action	36	25
Glover, D. W., and E. A. Taylor. A Review of War-Time Fuels for Road Vehicles ...	34	151
Glover, D. W. Silica Gel	29	241
Gordon, S. C., and L. W. Ellen. A New Subscribers' Intercommunicating Table Telephone Set	33	39
Gould, E. F. H. A Note on the Behaviour of the Earth as an Electrical Conductor	36	118
Gould, E. F. H. Control of Wireless Trans- mitters and other Electrical Apparatus under the Defence Regulations, 1939	33	28
Gould, E. F. H. The Suppression of Radio Interference from Electro-Medical and certain other types of High-Frequency Apparatus	35	23
Gracie, A. J. A. A Novel System of Diplex Transmission	30	15
Gracie, A. J. A. Rugby Radio Station ...	32	16
Grant, C. G., and A. J. C. Henk. The Unit Automatic Exchange No. 13	29	141
Grant, C. G., and J. H. Collins. Remote Control of a Teletypewriter Broadcast Switchboard	37	86
Gray, W. D. From Satellite to Main Exchange (Radletty)	31	271
Great Circle Bearings, Calculation of ...	32	142
Gregory, G., and C. F. Booth. Baldock Frequency Control Station	33	105
Gregory, G., and C. F. Booth. The Genera- tion and Distribution of a Standard 1 kc/s Synchronising Signal	34	156
Grinding Machine for Cutting Steel and Wrought Iron Pipes containing Working Cables, A Pneumatic	35	135
Groom, J. S., and R. H. Chapman. The Development of 2,000 type Selector Circuits	29	87
Ground Water Lowering, Methods of ...	35	1
Ground Water Lowering (S)	35	100
Ground Water Lowering (S)	36	93, 125
Group Inverter Equipment	35	130
Group Inverter for 12-Circuit Carrier Systems, A	33	183
Group Modulated Carrier Systems between Stranraer and Belfast, Additional ...	32	112
Group Working on 12-Circuit Carrier Cables (S)	32	137
Growth of Teletypewriter Private Services ...	29	290
Guarding, Power Circuit, New Developments in	32	219
Guernsey-Chaldon Ultra-Short Wave Radio Telephone Circuit, The	29	124
Guest, F. Local Line Development Plant	32	200
Guidance of Authors, Notes for the (S) ...	32	68

H

	VOL.	PAGE.
Hadfield, B. M. A Compact Two-Unit Cathode Ray Oscilloscope	36	1
Hadfield, B. M. A Method of Compensation for Supply Voltage Variations in Ther- mionic Valve Circuits	29	235
Hadfield, B. M., and W. W. Chandler. A Cathode Ray Impulse Measuring Equipment	33	149
Hadfield, B. M., and W. W. Chandler. An Impulse Generator	34	31
Hadfield, B. M., H. S. Smith, and T. H. Flowers. Signalling on Trunk Circuits: Introduction of Two-Frequency Working	29	41
Haliburton, F. C. The Treatment of Dis- placed Plant in Engineering Economic Cost Comparisons	31	221
Hall, L. L., and P. J. Rattue. A 1,000-kW Diesel Generating Installation	37	75
Hall, L. L., H. S. Lloyd and C. E. Richards. The Localisation of Small Leaks in the Underground Transmission Line System at Cooling Radio Station	32	138
Hall, L. L. The External Modernisation of Valentia Radio Station	29	285
Halsey, R. J., and D. G. Tucker. The Pro- vision of Music Channels on 12-Channel Carrier Cables	31	280
Halsey, R. J., and D. P. M. Millar. Carrier System No. 4	29	226, 294
Halsey, R. J., and F. Scowen. Additional Group Modulated Carrier Systems be- tween Stranraer and Belfast	32	112
Halsey, R. J., and W. T. Duerdoth. The First Submerged Repeater	37	33
Halsey, R. J. The Application of Carrier Systems to Submarine Cables	35	79, 121
Hand Microtelephone and Bell Set, The New Combined	31	1
Handy, T. A., and E. F. W. Allsup. Birm- ingham Trunk and Toll Exchange ...	29	314
Hanna, A. M. Fighter Command Communi- cations	38	109
Harbottle, H. R. The Telecommunications Network for Defence	38	125
Harding, J. P. The Economic Design of Manholes	34	1, 85, 133
Hardness Testing	29	110
Harris, L. H. Automatic Teletypewriter Switching	29	217
Harris, L. H. Promotion to Suptg. Engineer (S)	31	67
Harrison, G. B. W., and A. Miller. A New 54-way Duct Route in Central London	31	142
Harrison, G. B. W. The Air Raid Warning System	38	98
Harrold, E. J., and M. G. Holmes. Opening of Headquarters Exchange	32	159
Hart, J. A., and S. J. Mayo. Methods of Ground Water Lowering	35	1
Hartwell, C. H. The New Kingston (London) Exchange	32	124
Haward, R. C. Somerset House P.A.B.X.	31	137
Hayes Exchange, Extension of (S)	38	60
Headquarters Exchange, Opening of ...	32	159
Heater, An Electric Wax	31	225
Hebrides, Outer, Telephoning The (S) ...	31	326
Henk, A. J. C., and C. G. Grant. The Unit Automatic Exchange No. 13	29	141
Henk, A. J. C., and W. Clayton. The Unit Automatic Exchange No. 14	31	41
Heron, K. M., and P. A. Marchant. Post Office Equipment for Radar	38	117
Heterodyne Oscillator, A Carrier-Frequency	35	65
High-Frequency Cables and Feeders, Measurements on	36	37, 76
High Speed Cinematography	31	293

	VOL.	PAGE.
Hinchcliff, J. D. The Pendant Telephone ...	32	59
Hines, Capt J. G. Retirement of (S) ...	30	69
History and Development of the 30-cwt. Utility Vehicle, The ...	31	12
Hogg, T. E., and J. Sharp. The C.T.O. Inland Phonogram and Telephone-Telegram Installation ...	30	26
Hollerith Accounting Machines, The Application of, to the Distribution of Engineering Instructions ...	32	94
Hollinghurst, F., and H. F. Mann. Replacement of the Main Aerial System at Rugby Radio Station ...	33	22
Holmes, M. G., and E. J. Harrold. Opening of Headquarters Exchange ...	32	159
Holmes, M. G. London Trunk Exchange—Introduction of 2 V.F. and Seven-Digit Automatic Working ...	33	1
House of Commons Call Offices (S) ...	31	73
Hutton-Penman, P. R., and L. T. Arman. The Application of a Constant Volume Amplifier to a Short Wave Single Sideband Transatlantic Radio Circuit ...	31	104
I		
Identifying Wires in Cable Joints, New Tools for ...	34	169
Impact Testing ...	29	309
Impedance Matching Networks for Unloaded Cable ...	34	187
Impedance of Single Coaxial Cables, The Attenuation and ...	34	66
Improvements in Army Telephones (S) ...	38	101
Improvised Mountings ...	35	97
Improvised Oscillator for Pip-Tone Supply, An ...	36	90
Impulse Generator, An ...	34	31
Impulse Measuring Equipment, A Cathode Ray ...	33	149
Impulse Motors, Constant Speed ...	37	109
Impulsing in Non-Director Areas, The Problems Associated with ...	30	191, 320
Inauguration of the First Mobile Unit Automatic Exchange (1938) (S) ...	31	285
Innes, J. Appointed Assistant Secretary (S) ...	29	244
Inset, Transmitter, No 13 ...	29	335
Insulating Gaps as a Remedy to Electrolytic Action ...	33	115
Intercommunicating Table Telephone Set, A New Subscribers' ...	33	39
Interference, A New Form of Radio (S) ...	30	240
Interference on P.O. Wires from E.H.T. Network (S) ...	34	147
Interference, Radio, from Electro-Medical and certain other types of High-Frequency Apparatus, The Suppression of Interference, Telephone (S) ...	35	23
Interfering Signals and Effect of Noise on Television Transmission, The ...	29	336
International Conferences, (1938) ...	32	193
International Congress, Second, for Testing Materials (April 1937) (S) ...	31	204
International Congress, Second, for Testing Materials (April 1937) (S) ...	30	114
International Electro-Technical Commission (I.E.C.) (June 1938) (S) ...	31	206
International Telegraph Consultative Committee (C.C.I.T.), Warsaw (October, 1936) ...	31	293
International Telephone Conference (C.C.I.F.) in London (February, 1936), The ...	29	38
Interruption Cable, A Solid Wax Joint for (S) ...	34	192

	VOL.	PAGE.
Interruption Cable, Erection of, in Unusual Circumstances (S) ...	33	145
Introduction of Ultra-Short Wave Radio Links into the Telephone Network, The Invasion Armies, Post Office Cable Communications for the ...	31	93
Inverter Equipment, Group ...	38	136
Inverter for 12-Circuit Carrier Systems, A Group ...	35	130
I.P.O.E.E., Visit of Council to Shrewsbury, March 1937 ...	33	183
	30	158

J

Jackman, A. J., and N. F. Sephton. New Tools for Identifying Wires in Cable Joints ...	34	169
Jackman, A. J., and R. A. Seymour. The Application of 12-Circuit Carrier Telephony to Existing Cables ...	34	12
Jarvis, R. F. J., and E. C. H. Seaman. The Effect of Noise and Interfering Signals on Television Transmission ...	32	193
Jarvis, R. F. J., and E. C. H. Seaman. The Essential Characteristics of Television Circuits ...	32	224
Jarvis, R. F. J., and E. F. S. Clarke. Apparatus for the Measurement of Insertion Phase Shift at Radio Frequencies ...	32	162
Jarvis, R. F. J., and E. F. S. Clarke. A Wide-Range Beat-Frequency Oscillator ...	35	28
Jarvis, R. F. J. and G. H. Fogg. Formulae for the Calculation of the Theoretical Characteristics and Design of Coaxial Cables ...	30	138
Jarvis, R. F. J., and J. C. Simmonds. Measurements on High Frequency Cables and Feeders ...	36	37, 76
Jenkins, I. H. Retirement of (S) ...	31	231
Jensen, K. L. The Development of a New Wheatstone Transmitter ...	37	7
Johnston, A. E. Reproduction of Prints of Drawings and Diagrams in the E.-in-C.O. ...	30	225
Joint, Solid Wax, for Interruption Cable, A (S) ...	34	192
Joints, Cast, in Duct Lines (S) ...	34	172
Joints in Overhead Wires (S) ...	29	69
Joints, Mechanical, for Through Cables (S) ...	33	144
Jones, C. E. Palmer. Ready Reckoner for Losses due to Mismatch ...	30	308
Jones, R. E., and L. E. Ryall. A Stabilised Repeater and its Application to Trunk Circuits ...	31	126
Jones, R. E. Non-Linear Distortion of Music Channels with Particular Reference to the Bristol-Plymouth System ...	32	45
Jones, R. E. The Operation and Utilisation of Echo-Suppressors ...	32	247
Josephs, H. J., and J. F. Doust. A Simple Introduction to the use of Statistics in Telecommunications Engineering ...	34	36, 79
Josephs, H. J. Note on the Resistance Noise in a Coaxial Pair ...	32	61
Judd, F. J. Kiosks ...	29	175

K

Key, A Delayed-Action Lever Type ...	38	16
Kilvington, T. E., and H. T. Mitchell. The Phase Cyclometer ...	34	115
King's Cross Underground Station Reconstruction (S) ...	31	235

	VOL.	PAGE.		VOL.	PAGE.
King's House Subscriber Attended P.A.B.X., The	29	130	Lines, The Bomber	38	105
Kingston (London) Exchange, The New ...	32	124	Link, Radio Telephone, to Trawlers (S) ...	30	336
Kiosks	29	175	Links, Ultra-Short Wave Radio, The Intro- duction of, into the Telephone Network ...	31	93
			Little, G. J. S. Carrier Telephony	29	34, 156 220, 329
			Little, G. J. S. Promotion to Superintending Engineer (S)	31	230
			Liverpool Auto, Duct Work Schemes ...	30	159
L			Lloyd, H. S., C. E. Richards and L. L. Hall. The Localisation of Small Leaks in the Underground Transmission Line System at Cooling Radio Station	32	138
Ladder Derrick for Overhead Work, The	31	267	Local Line Development Plant	32	200
Laminations, The Production of Magnetic ...	36	65	Localisation, Fault, with Gas-Filled Cables	30	237
Lamp Signalling P.M.B.X. Switchboard, New	35	57	Localisation of High Crosstalk in Long Trunk Cable (S)	36	124
Landing of Submarine Cable at Dartmouth (S)	31	237	Localisation of Sheath Punctures in Armoured Cables by CO ₂ Gas	37	116
Langford, L. C. Cable Splicing and Recon- ditioning	38	22	Localisation of Small Leaks in the Under- ground Transmission Line System at Cooling Radio Station, The	32	138
Latching Relay, The 3,000-type	33	136	Localising Cable Faults when no "Good" Wire is available, An Accurate Method of, Sub-	30	99
Laver, F. J. M., and C. F. Booth. Tempera- ture Control for Oscillators of Stable Frequency	35	8	Location of Buried Bombs (S)	38	131
Lawrence, J. A., and A. G. Edwards. The Mechanical Impulse Regenerator	30	261	Loch Awe Submarine Cables	30	235
Lawson, D. Malloch. Pole Routes in Tropical Countries	33	63	Logarithms, Addition and Subtraction ...	32	244
Lawton, J., and D. J. Marks. A Simplified Compandor Equipment for Trunk Circuits	33	120	London-Birmingham Cable, The First ...	31	147
Lawton, J. The Reduction of Crosstalk on Trunk Circuits by the Use of the Volume Range Compressor and Expander	32	32	London-Birmingham Coaxial Cable System, The—		
Laying and Cleating Cables in a Difficult Situation	30	160	Part I.—Description of the System ...	30	206
Laying Armoured Cable across Moorland (S)	32	153	Part II.—Description of the Repeaters and Terminal Equipment	30	270
Laying of Submarine Cable across the Tay Estuary (S)	29	338	Part III.—Layout of Equipment and Test Results	31	51
Laying 3-in. S.A. Duct with a Mechanical Excavator (S)	34	147	Part IV.—Test Results and Commercial Operation	31	132
Lead Alloys for Cable Sheaths (S)	29	58	London, Cable Test,	36	51
Lead Covered Cable Attacked by Wood Wasp (S)	38	27	London Director Area, Extended Dialling Facilities in the	36	114
Leaks, Small, The Localisation of, in the Underground Transmission System at Cooling Radio Station	32	138	London Fire Brigade Alarm System, The	30	284
Lee, Retirement of Sir George	32	145	London Reconstruction Works (S)	29	339
Lee, Sir George, I.E.E. Presidential Address (1937) (S)	30	312	London Telecommunications Region Power Section Workshops, The	36	48
Leeds (New) Repeater Station	31	320	London Trunk Exchange. Introduction of 2 V.F. and Seven-Digit Automatic Working	33	1
Legg, Capt. J., Promotion to Staff Engineer (S)	31	230	London's Television Twin Cable Links ...	30	215
Leigh, H. The Production of the <i>Post Office Electrical Engineers' Journal</i>	34	126	Long Distance Position Finding by D. F. ...	34	94
Length, Standards of	29	59	Long Distance Teleprinter Working (S) ...	30	243
Level Recorder, The Automatic	36	103	Lorry, The Crane (S)	31	160
Lewis, N. W. An Improvised Oscillator for Pip-Tone Supply	36	90	Loss Coefficients of Magnetic Dust Core Materials, The Measurement of the ...	35	46
Lewis, N. W. The Carrier System, No. 3	29	152	Loss, Insertion, and Phase Change of 4-Terminal Reactance Networks, Calcula- tion of	35	88, 111
Lewis, S. G. The New Telegraph Terminal at Bangor	29	327	Loudspeaking Telephone, A New Subscriber's	29	6
Lewis, S. G., and C. E. Easterling. The Tele- printer Ancillary	29	119	Lowering and Slewing a 3-way Duct	33	99
Library, Some Notes on the Engineer-in- Chief's	36	71	Lowering and Slewing existing Ducts and Cables	31	201
Lidstone, F. J. W., and O. S. Stiles. Arti- ficial Life Tests of Cords and Flexible Conductors	32	130	Lowering, Ground Water, Methods of ...	35	1
Life Tests of Cords and Flexible Conductors, Artificial	32	130	Lowering, Ground Water (S)	35	100
Lift Fault, An Unusual (S)	38	61	Lowne, W. R. J. A Vertical Mails Elevator	36	33
Lifts, Electric, The Application of Telephone Apparatus to	36	97	Lowry, W. R. H., and W. J. Bray. A New Short-Wave Transatlantic Radio Receiver	32	24
Lifts, Passenger, at Telephone House, Birmingham	29	280	Luckhurst, J. E., and G. T. Evans. Baldock Radio-Telephone Receiving Station ...	32	256
Lighting, Fluorescent	37	65	Lynch, A. C., and H. Corkett. Trunk Delay Announcing	35	73
Lightning and Lightning Protection	30	173	Lynch, A. C., and J. R. Tillman. Emission- Type Photo-Electric Cells	36	43
Lightning, Unusual Damage by (S)	31	324	Lynes, F. A. Simple Transmission Theory relating to the Matching of Radio Feeder Lines	31	210
Line Equalisation, Constant Impedance Net- works for	29	302			
Lines, Aerial Cable	37	44, 70			

M

	VOL.	PAGE.	VOL.	PAGE.
Machine, Pneumatic Grinding, for Cutting Steel and Wrought Iron Pipes containing Working Cables	35	135		
Machines and Tests Devised to facilitate the Mechanical Examination of Materials, Special	33	88		
Machines (Postage Meter), Franking	33	156		
Machynlleth Power Station Failure (S)	30	252		
Magnesium Limestone Deposit on O/H Wires (S)	38	28		
Magnetic Dust Core Materials, The Measurements of the Loss Coefficients of	35	46		
Magnetic Dust Cores	37	1		
Magnetic Laminations, The Production of	36	65		
Magnusson, L. E., E. A. Speight and O. W. Gill. The Speaking Clock	29	261		
Mailbag Conveyor in the Foreign Postal Sorting Office, London, A	33	138		
Mails Elevator, A Vertical	36	33		
Mains Driven 500/20 c/s Signalling Equipment, A	37	97		
Mains Frequency Converter for Ringing Supplies, A	36	110		
Mains Frequency Error Recorder, A	33	171		
Maintenance and Routiner Control, Centralised, in Automatic Exchanges	30	58		
Maintenance Aspect of Overhead Construction, The	30	56		
Maintenance Experiment, Bristol (S)	29	342		
Maitland, C. E. A. Street Traffic Control centralised in the Telephone Exchanges in Amsterdam	30	81		
Malaya, The Submarine Cable to Pangkor	32	85		
Manchester-Leeds-Newcastle Coaxial Cable	38	94		
Manchester, Metropolitan Vickers, New Switchboard Installation at (S)	32	217		
Manchester Regional Training School (S)	29	249		
Manchester-Sheffield Cables, Diversion of the (S)	36	93		
Manhole Construction in Running Sand (S)	34	48		
Manholes, The Economic Design of	34	1.	85, 133	
Mann, H. F., and F. Hollinghurst. Replacement of the Main Aerial System at Rugby Radio Station	33	22		
Manning, F. E. A., and P. B. Frost. C.C.I.F. XIth Plenary Assembly at Copenhagen (June, 1936)	29	214		
Manning, F. E. A. The International Telephone Conference (C.C.I.F.) in London (February, 1936)	29	38		
Manxland, The Royal Visit to (S)	38	92		
Marchant, H. J., and D. J. Tucker. Frequency Division without Free Oscillation	35	62		
Marchant, P. A., and K. M. Heron. Post Office Equipment for Radar	38	117		
Marconi, H.E. Marchese	30	244		
Marconi, Signor, Meeting of Sir William Preece and (1896) (S)	37	29		
Marks, D. J., and J. Lawton. A Simplified Compandor Equipment for Trunk Circuits	33	120		
Mass-Produced Articles, Statistical Theory Applied to the Testing of	31	305		
Matching Networks, Impedance, for Unloaded Cable	34	187		
Matching of Radio Feeder Lines, Simple Transmission Theory Relating to the	31	210		
Materials in Telecommunications, Modern	33	53, 127, 189		
	34	19,		
	35	72, 179		
	35	15, 84		
Materials, Second International Congress for Testing (April, 1937) (S)	30	114		
Mayo, S. J., and J. A. Hart. Methods of Ground Water Lowering	35	1		
McDonald, C. G. A., and F. C. Carter. Electrical Services in Large Buildings	31	183		
McGregor, J. E. Pneumatic Despatch Tubes—their Economics and Uses	31	64		
McKie, A. N., F. O. Morrell and R. O. Carter. A Recent Development in Telegraph Repeaters for Submarine Cables	38	34		
McMillan, D. A Method of Equalising the Frequency Characteristic of a Telephone Transmitter	31	299		
McMillan, D. The Telephone Transmitter: A Suggested Theory of Operation	31	167		
Mead, F. C. An Outline of the Principles of Atomic Physics	29	48, 105, 203, 322		
Mean "t" Test, Single, Simplified Method of Utilising the	36	18		
Measurement of Crosstalk in Telephone Apparatus with an Artificial Voice and a Weighted Transmission Measuring Set, The	38	48		
Measurement of the Loss Coefficients of Magnetic Dust Core Materials, The	35	46		
Measurements on High-Frequency Cables and Feeders—				
Part I. Tuned Circuit Substitution Methods	36	37		
Part II. Impedance, Transmission and Crosstalk Attenuation Methods	36	76		
Mechanical Examination of Materials, Special Machines and Tests Devised to facilitate the	33	88		
Mechanical Impulse Regenerator, The	30	261		
Mechanical Joints for Through Cables (S)	33	144		
Meek, L. Modern Cable Layout in Manholes and Cable Chambers	29	29		
Meeting at Oslo. C.C.I.F. Rapporteurs' (June 1938)	31	205		
Meeting of Sir William Preece and Signor Marconi (1896) (S)	37	29		
Melbourne City West Exchange	32	237		
Mellor, S. D. Delayed Call Formulæ when Calls are served in Random Order	35	53		
Menai Suspension Bridge, The Reconstruction of	32	75		
Mercer, A. E. Cable Test—London	36	51		
Mersey Tunnel, Post Office Cabling in the Meter Readings, Subscribers', The Photographic Recording of	31	207		
Metering, Automatic Repeat, Automatic Exchange Developments in South Africa: Method of Compensation for Supply Voltage Variations in Thermionic Valve Circuits, A	29	235		
Method of Equalising the Frequency Characteristic of a Telephone Transmitter, A	31	299		
Method of Opening Steel Pipes, A (S)	34	146		
Method of Sub-localising Cable Faults when no "Good" Wire is available, An Accurate	30	99		
Methods of Ground Water Lowering	35	1		
Metson, G. H. An Accurate Method of Sub-localising Cable Faults when no "Good" Wire is available	30	99		
Mew, G. M. The Supply of Power for Telephone Exchanges	32	184		
Micro Wave Demonstration Equipment	30	313		
Microtelephone and Bell Set, Hand, The New Combined	31	1		
Milford Haven, Subaqueous Cable at	31	159		
Millar, D. P. M., and R. J. Halsey. Carrier System No. 4	29	226, 294		
Miller, A., and G. B. W. Harrison. A New 54-way Duct Route in Central London	31	142		
Miller, A. Gerrard, Old and New	30	328		
Mills, C. F., and W. G. Dunk. A Mobile Post Office	29	208		

	VOL.	PAGE.		VOL.	PAGE.
Mirk, D. B. The Belfast-Stranraer 9-Circuit Ultra-Short Wave Radio Telephone System	31	33	Mumford, A. H. The Guernsey-Chaldon Ultra-Short Wave Radio Telephone Circuit ...	29	124
Mitchell, C. A. Aerial Cable Suspension by the Spinning Method	38	19	Mumford, A. H. The London-Birmingham Coaxial Cable System	30	206, 270
Mitchell, H. T., and T. Kilvington. The Phase Cyclometer	34	115	Murray, J. B. Modifications to the Automatic Power Supply Changeover Equipment at King Edward Building Sub-station	36	10
Mitchell, H. T., and T. Pilling. Constant Speed Impulse Motors	37	109	Murray, J. B. A Stand-by Generating Plant Music Channels	35	115
Mobbs, H. J. Fire Extinction in Telephone Exchanges	30	241	Music Channels, Non-Linear Distortion of, with Particular Reference to the Bristol-Plymouth System	32	45
Mobile Automatic Telephone Exchange, A Mobile Exchange (S)	29	326	Music Channels on 12-Channel Carrier Cables, The Provision of	31	280
Mobile Post Office, A	29	208			
Mobile Post Office No. 2 (S)	31	136			
Mobile Post Offices (S)	29	93			
Mobile Teletypewriter Scheme for Southampton Docks (S)	30	163			
Mobile Unit Automatic Exchange, Inauguration of the First (December 1938) (S) ...	31	285			
Modern Cable Layout in Manholes and Cable Chambers	29	29			
Modern Developments in Television— Part I—Transmission Systems	30	37			
Part II—Reception Systems	30	129			
Modern Materials in Telecommunications— Part I—The Growth of Knowledge Concerning the Internal Structure of Matter ...	33	53			
Part II—Some Organic Structures and their Properties	33	127			
Part III—The Nature of Metals and Alloys	33	189			
Part IV.—Magnetic Materials	34	19			
Part V.—Metallic Conductors	34	72			
Part VIa.—Semi-Conductors	34	179			
Part VIb.—Contact Rectifiers and Photo-Electric Cells using Semi-Conductors ...	35	15			
Part VII.—Non-Conductors; Insulation Resistance and Electric Strength ...	35	84			
Modifications to the Automatic Power Supply Changeover Equipment at King Edward Building Sub-station	36	10			
Modulation, A Note on Amplitude, Phase and Frequency	34	42			
Moffatt, J. J. Stainless Steel-Sheathed Aerial Cable	36	107			
Moledrainer—Modified Use in L.T.R. North Area (S)	34	191			
Moledrainer, Pipe Laying by (S)	36	29			
Moorland, Laying Armoured Cable across (S) ...	32	153			
Morgan, J. Promotion to Superintending Engineer (S)	31	152			
Morrell, F. O., R. O. Carter and A. N. McKie. A Recent Development in Telegraph Repeaters for Submarine Cables ...	38	34			
Morris, A. Promotion to Superintending Engineer (S)	29	247			
Morris, T. G. Police Telephone Systems ...	30	229			
Morrish, H. E., and W. P. Chasmar. The Post Office Work in Conjunction with the Finchley Road and Swiss Cottage Metropolitan Railway Improvements	32	39			
Morrish, H. E. Sulphate Attack on Concrete Motors, Constant Speed Impulse	37	109			
Mountings, Improved	35	97			
Movements with Duddell Oscillograph, The Study of Small Mechanical	31	112			
Multi-Fee Call Dialling and Registration at Non-Director Exchanges	31	5			
Multiphone Working	33	60			
Multi-Way Thrust Boring (S)... ..	33	146			
Mumford, A. H., and D. A. Thorn. The Introduction of Ultra-Short Wave Radio Links into the Telephone Network ...	31	93			
Mumford, A. H. Promotion to Staff Engineer (S)	31	152			
Mumford, A. H. Simplified Method of Utilising the Single Mean "t" Test ...	36	18			

N

Nancarrow, F. E. Growth of Teletypewriter Private Services	29	290
Nancarrow, F. E. Promotion to Staff Engineer (S)	29	74
Nancarrow, F. E. The Telecommunications Network for Defence	38	121
Napoleonic Wars Relic (S)	31	160
Narrow Band Crystal Filter, A Simple ...	35	4
Narrow Band Filter using Crystal Resonators, A	33	176
Negative Feed-Back Amplifier, The,—A Mechanical Analogy	29	71
Networks, Cable Capacitance, Simplification of	36	82
Networks, Constant Impedance, for Line Equalisation	29	302
Networks for Unloaded Cable, Impedance Matching	34	187
Networks, 4-Terminal Reactance, Calculation of Insertion Loss and Phase Change of Nevin-Dublin Carrier System for Telephony and V.F. Telegraphs, The	32	118
Nevin-Howth (1938) Cable	31	239
New Amplifier No. 32 and Associated Equipment, The	34	60
New Automatic Exchanges	31	318
New Combined Hand Microtelephone and Bell Set, The	31	1
New Developments in Power Circuit Guarding	32	219
New 54-way Duct Route in Central London, A	31	142
New Form of Radio Interference, A (S) ...	30	240
New Kingston (London) Exchange, The ...	32	124
New Lamp Signalling P.M.B.X. Switchboard ...	35	57
New Power Plant for P.M.B.X.'s, A	32	212
New Rectifier Unit, A	37	118
New Short-Wave Transatlantic Radio Receiver, A	32	24
New Standard Attenuation Equaliser, A ...	37	22
New St. Paul's Tube Station, The	31	301
New Subscriber's Loudspeaking Telephone, A	29	6
New Telegraph Terminal at Bangor, The ...	29	327
New Tools for Identifying Wires in Cable Joints	34	169
Newport (Mon) Civic Centre Telephone Installations	33	100
News Broadcasting System (S)	29	37
Noise and Interfering Signals, Effect of, on Television Transmission	32	193
Noise and Treatments for its Reduction in Telephone Exchange Manual Switch-rooms	31	57
Noise-Eliminating Unit for Junction Circuits exposed to Power Induction	33	186
Nomenclature and Symbols for Telecommunications	30	310

	VOL.	PAGE.
Non-Linear Distortion of Music Channels with Particular Reference to the Bristol-Plymouth System	32	45
Note on Amplitude, Phase and Frequency Modulation, A	34	42
Note on Differential Condensers and Resistors, A	29	319
Note on the Behaviour of the Earth as an Electrical Conductor, A	36	118
Note on the Resistance Noise in a Coaxial Pair	32	61
Notes for the Guidance of Authors (S) ...	32	63
Notes on the Design of Communication Equipment (Tropical)	29	275
Notes on the Engineer-in-Chief's Library, Some	36	71
Novel System of Diplex Transmission, A ...	30	15



O'Brien, E. J. C. The Equipping of the Reconstructed Central Telegraph Office ...	38	11
Obstruction, Unusual Duct (S)	36	62
O'dell, G. F. Nomenclature and Symbols for Telecommunications	30	310
O'dell, G. F. Promotion to Assistant Engineer-in-Chief (S)	32	147
O'Meara, Lt.-Col., Death of (S)	32	264
Opening, Civic, of Telephone House, Birmingham (January 1937)	30	73
Opening of Headquarters Exchange	32	159
Opening Steel Pipes, A Method of (S) ...	34	146
Operation and Utilisation of Echo-Suppressors, The,	32	247
Operation of Filters in Parallel, The ...	32	135
Oscillator, A Carrier-Frequency Heterodyne	35	65
Oscillator, A Wide-Range Beat-Frequency ...	35	28
Oscillator for Pip-Tone Supply, An Improved	36	90
Oscillators and 500/20 Ringing Receivers for Guernsey-Jersey Circuits (S)	29	225
Oscillators of Stable Frequency, Temperature Control for	35	8
Oscillograph, Duddell, The Study of Small Mechanical Movements with the... ..	31	112
Oscilloscope, A Compact Two-Unit Cathode Ray	36	1
Oslo, C.C.I.F. Rapporteurs' Meeting at (June 1938)	31	205
Outline of the Principles of Atomic Physics, An—		
Part I.—Fundamental Phenomena and Experimental Methods	29	48
Part II.—The Phenomena of Ionization in Gases and their Significance	29	105
Part III.—Isotopes, Radioactivity and the Neutron	29	203
Part IV.—The Positron and the Neutrino	29	322
Overhead Construction, The Maintenance Aspect of	30	56
Overhead Wires, Joints in (S)	29	69
Overhead Work, The Ladder Derrick for ...	31	267



Palmer, R. W., and G. A. O. Abbott. A Mobile Automatic Telephone Exchange	32	1
Palmer, R. W. High Speed Cinematography	31	293
Palmer, R. W. The Post Office Circuit Laboratory	29	53

	VOL.	PAGE.
Pangkor, Malaya, The Submarine Cable to Parker, K. L. Statistical Theory applied to the Testing of Mass-Produced Articles	32	85
Partridge, T. T. Retirement of (S)	31	305
Passenger Lifts at Telephone House, Birmingham	30	245
Paul, W. A. J., and L. L. Tolley, The Photographic Recording of Subscribers' Meter Readings	29	280
Pearce, C. A. R. Diakon—A New Material for Coloured Telephones	31	207
Pearce, C. A. R. The London Telecommunications Region Power Section Workshops	30	292
Pearce, C. A. R. The New Combined Hand Microtelephone and Bell Set	36	48
Pearce, C. A. R. Transmitter Inset No. 13	31	1
Pendant Telephone, The	29	335
Perryman, C. F., C. E. Worthington, G. A. Alston and F. E. Bland. The Battle of the Atlantic and the Post Office	32	59
Pettitt, V. R. Simplification of Cable Capacitance Networks	38	113
Phase Change and Insertion Loss of 4-Terminal Reactance Networks, Calculation of	36	82
Phase Cyclometer, The	35	88, 111
Phase Shift at Radio Frequencies, Apparatus for the Measurement of Insertion	34	115
Phillips, R. S. Electric Battery Vehicles for Postal Work	33	162
Phillips, R. S. Services in a Modern P.O. Building	37	48
Phillips, W. A. The King's House Subscriber Attended P.A.B.X.'s	34	109
Phonogram and Telephone-Telegram Installation, The C.T.O. Inland	29	130
Photo-Electric Cells, Emission-Type	30	26
Photographic Recording of Subscribers' Meter Readings, The	36	43
Photography, Safeguarding of Essential Records by	31	207
Piezoelectric Quartz Crystals	37	17
Piggott, J. Mailbag Conveyor in the Foreign Postal Sorting Office, London, A	38	65
Pilling, T., and H. T. Mitchell. Constant Speed Impulse Motors	33	138
Pipe Coupling, Quick Action (S)	37	109
Pipe Laying by Mole-Drainer (S)	35	120
Pipes, Steel, A Method of Opening (S) ...	36	29
Pipes, Wrought Iron and Steel, containing Working Cables, Equipment for Cutting	34	146
Pipes, Wrought Iron and Steel, containing Working Cables, Pneumatic Grinding Machine for	34	184
Pip-Tone Supply, An Improved Oscillator for	35	135
Plenary Assembly, XIth, C.C.I.F. Copenhagen, June, 1936	36	90
Plumpton, F. E. Equipment for Cutting Steel and Wrought Iron Pipes containing Working Cables	29	214
Plumpton, F. E. Pneumatic Grinding Machine for Cutting Steel and Wrought Iron Pipes containing Working Cables	34	184
P.M.B.X. Switchboard, New Lamp Signalling	35	135
Pneumatic Despatch Tubes—their Economics and Uses	35	57
Pneumatic Grinding Machine for Cutting Steel and Wrought Iron Pipes containing Working Cables	31	64
Poisonous Gases in Underground Workings, The Detection of	35	135
Pole Arms, Wooden (S)	30	110
Pole Damage by Birds (S)	30	137
Pole Routes in Tropical Countries	35	140
Poles, Erection of Double-Spliced 113-ft. (S)	33	63

	VOL.	PAGE.
Police Telephone Systems	30	229
Polgreen, G. R. Magnetic Dust Cores ...	37	1
Polythene and its Uses as a Dielectric ...	37	40
Portable Petrol Driven Rock Drills and Concrete Breaking Machines	29	196
Portable Trunk Units	37	105
Portsmouth Harbour—Submarine Cables (S)	30	249
Position Finding by D.F., Long Distance ...	34	94
Post Office, A Mobile	29	208
Post Office and Public Address, The	34	26
Post Office Cable Communications for the Invasion Armies	38	136
Post Office Cabling in the Mersey Tunnel ...	32	79
Post Office Circuit Laboratory, The	29	53
<i>Post Office Electrical Engineers' Journal</i> , The Production of the	34	126
Post Office Equipment for Radar	38	117
Post Office No. 2, Mobile (S)	31	136
Post Office Pavilion at the Empire Exhibition, Bellahouston Park (1938)	31	85
Post Office Telecommunications, Air Raid Damage to	35	93, 126 20, 46
Post Office Telecommunications Convention (1937) (S)	29	321
Post Office Work in Conjunction with the Finchley Road and Swiss Cottage Metro- politan Railway Improvements, The ...	32	39
Post Offices, Mobile (S)	29	93
Power Circuit Guarding, New Developments in	32	219
Power Development and their Repercussions upon Telecommunication Systems, Present Tendencies of	30	1
Power Plant Practice in Automatic Telephone Exchanges, Current	33	12
Power in 2,000-type Exchanges, Distribution of	33	71
Power Plant for P.M.B.X.'s, A New	32	212
Power Supply Changeover Equipment at King Edward Building Sub-station, Modi- fications to the Automatic	36	10
Power Supply for Telephone Exchanges, The Preece, Sir William, and Signor Marconi, Meeting of (1896) (S)	37	29
Prescott, J. The New St. Paul's Tube Station	31	301
Present Tendencies of Power Development and their Repercussions upon Telecom- munication Systems	30	1
Principles of Design of Smoothing Chokes ...	34	118
Private-Wire Services, Teleprinter (S) ...	29	207
Problems associated with Impulsing in Non- Director Areas, The	30	191, 320
Problems involved in the Preparation of a European Trunk Switching Plan	30	32
Production of Fixed Carbon Resistors, The	36	6
Production of Magnetic Laminations, The	36	65
Production of Portland Cement, The	30	200
Production of Quartz Resonators for the London-Birmingham Coaxial Cable System, The	31	245 7, 88
Production of the <i>Post Office Electrical Engineers' Journal</i> , The	34	126
Protection, Lightning and Lightning	30	173
Protection of Post Office Circuits in Northern Ireland	30	121
Provision of Equipment at the London Fire Brigade Headquarters (S)	30	253
Provision of Music Channels on 12-Channel Carrier Cables, The	31	280
Public Address, The Post Office and	34	26
Publications, Technical, of the International Tin Research and Development Council (S)	30	164
Pugh, S. E. Fluorescent Lighting	37	65
Punctures, Sheath, in Armoured Cables, Localisation of by CO Gas	37	116

	VOL.	PAGE.
Pyrah, F. A New Standard Attenuation Equaliser	37	22
Pyrah, F. Constant Impedance Equalisers: Simplified Method of Design and Standardisation	32	204

Q

Quartz Crystals, Piezo Electric	38	65
Quartz Resonators for the London-Birming- ham Coaxial Cable System, The Produc- tion of	31	245 7, 88
Quick Action Pipe Coupling (S)	35	120

R

Radar, Post Office Equipment for	38	117
Radio Feeder Lines, Simple Transmission Theory Relating to the Matching of ...	31	210
Radio Interference, A New Form of (S) ...	30	240
Radio Interference from Electro-Medical and certain other types of High-Frequency Apparatus, The Suppression of	35	23
Radio Link, Douglas Ultra-Short Wave (S)	32	217
Radio Links, Ultra-Short Wave, The Intro- duction of, into the Telephone Network	31	93
Radio Receiver, A New Transatlantic Short Wave	32	24
Radio Telephone Link to Trawlers (S) ...	30	336
Radio-Telephone Receiving Station, Baldock	32	256
Radley, W. G., C. E. Richards, E. A. Speight and E. V. Walker, Modern Materials in Telecommunications	33	53, 127, 189
	34	19,
	35	72, 179 15, 84
Radley, W. G. Lightning and Lightning Protection	30	173
Radley, W. G. Promotion to Staff Engineer (S)	31	312
Rae, J. D. Extended Dialling Facilities in the London Director Area	36	114
Railway Tunnel Crossing, Glasgow (S) ...	31	240
Rattue, P. J., and L. L. Hall, A 1,000-kW Diesel Generating Installation	37	75
Reactance Networks, 4-Terminal, Calculation of Insertion Loss and Phase Change of	35	88, 111
Ready-Reckoner for Losses due to Mismatch	30	308
Rebuilding of Chelsea Bridge, The	30	252
Receiving End of "Coventration," The ...	38	132
Receiving Station, Radio-Telephone, Baldock	32	256
Recent Changes to Equipment on Test Desks (S)	33	38
Recent Development in Telegraph Repeaters for Submarine Cables, A	38	34
Recent Developments in W.D. Telephone Switchboards	38	70
Reckoner, Ready-, for Losses due to Mismatch	30	308
Reconditioning and Splicing Cable	38	22
Reconstruction, King's Cross Underground Station (S)	31	235

	VOL.	PAGE.		VOL.	PAGE.
Reconstruction Works, London (S)	29	339	Richards, E. M., and F. J. D. Taylor. The	31	23
Recorder, A Route Distance	30	65	Belfast-Stranraer Cable Carrier System		
Recorder, The Automatic Level	36	103	Ridd, J. M. Distribution of the Speaking	37	101
Recording, Photographic, of Subscribers'			Clock Service		
Meter Readings, The	31	207	Ridd, P. J. Appointed Assistant Engineer-	29	246
Records by Photography, Safeguarding of			in-Chief (S)		
Essential	37	17	Ridd, P. J. Promotion to Deputy Engineer-	32	147
Recruitment and Training of Post Office			in-Chief (S)		
Workmen	29	94	Riley, C. Death of H.M. King George V.: Telephone and Telegraph Arrangements	29	1
Rectified Reaction Stage, The Stability and			Rimes, R. E. New Developments in Power	32	219
Performance of the Single	30	294	Circuit Guarding		
Rectifier Unit, A New	37	118	Ringier Receivers 500/20 and Oscillators for	29	225
Reduction of Crosstalk on Trunk Circuits by			Guernsey-Jersey Circuits (S)		
the Use of the Volume Range Com- pressor and Expander, The	32	32	Ringier Supplies, A Mains Frequency Con- verter for	36	110
Reductions, Recent, in Telephone Charges			Robins, A. G. The Bomber Lines	38	105
(Inland Service), The Financial Effects of	32	165	Robinson, A. K. Functions of a Complex Angle	29	23
Regionalisation	29	245	Robinson, O. D. The Receiving End of "Coventration"	38	132
Relay for Use on Long Distance Private			Robinson, R. T. The History and Develop- ment of the 30-cwt. Utility Vehicle	31	12
Wires, A Voice-Operated	33	66	Roche, J. J., and N. D. Smith. New Lamp Signalling P.M.B.X. Switchboard	35	57
Relay, The 3,000-type Latching	33	136	Rosen, A. A Note on Differential Condens- ers and Resistors	29	319
Relic, Napoleonic Wars (S)	31	160	Route Distance Recorder, A	30	65
Remote Control of a Teleprinter Broadcast			Routes, Pole, in Tropical Countries	33	63
Switchboard	37	86	Routiner and Maintenance Control, Central- ised, in Automatic Exchanges	30	58
Removal of a Unit Automatic Exchange (S)			Royal Visit to Manxland (S)	38	92
Reorganisation, Birmingham Area (S)	30	162	Rubber	33	95
Repair Work, The Application of Welding to	35	50	Rubber, A Brief Survey of Synthetic Alter- natives to Natural	37	11
Repeater, A Stabilised, and its Application to			Rudeforth, S., and H. Williams. The Prob- lems associated with Impulsing in Non- Director Areas	30	191, 320
Trunk Circuits	31	126	Rugby Radio Station	31	191
Repeater Station, Leeds (New)	31	320	Rugby Radio Station, Replacement of the Main Aerial System at	33	22
Repeater, The First Submerged	37	33	Rugby Radio Station, Storm Damage to the Main Aerial System at	33	134
Repeaters, Telegraph, for Submarine Cables, A Recent Development in	38	34	Ryall, L. E. A Fast Operating Differential Echo-Suppressor	30	186
Replacement of London Toll Exchanges	35	105	Ryall, L. E., and A. G. Burgess. A Simple Transmission Measuring Equipment	30	52
Replacement of the Main Aerial System at			Ryall, L. E., and R. E. Jones. A Stabilised Repeater and its Application to Trunk Circuits	31	126
Rugby Radio Station	33	22	Ryall, L. E. A New Subscriber's Loud- speaking Telephone	29	6
Reproduction of Prints of Drawings and Diagrams in the E.-in-C.O.	30	225	S		
Resistance Compensated Band-Stop Filter, A	33	82	Safeguarding of Essential Records by Photography	37	17
Resistance Noise in a Coaxial Pair, Note on the	32	61	Safeguarding Telecommunications in War- time	38	127
Resistors, The Production of Fixed Carbon	36	6	Sand, Manhole Construction in Running (S)	34	48
Resonators, Crystal, Channel Filters			Satellite to Main Exchange, (Radlett), From	31	271
Employing	31	254	Sayers, C. F., and C. F. Booth. The Produc- tion of Quartz Resonators for the London-Birmingham Coaxial Cable System	31	245
Resonators, Quartz, The Production of, for the London-Birmingham Coaxial Cable System	31	245	32	7, 88
Restoration of Telephone Apparatus affected by Enemy Action, The	36	25	Scillonian Telephone Exchange	31	75
Retrospective—Auto-Telephony in the Pro- vinces	31	321	Scilly Islands, Telephone Communication with the	31	101
Review of War-time Activities	38	140	Scowen, F., and R. J. Halsey. Additional Group Modulated Carrier Systems be- tween Stranraer and Belfast	32	112
Review of War-Time Fuels for Road Vehicles, A	34	151			
Rhodes, J. Post Office Cable Communica- tions for the Invasion Armies	38	136			
Richards, C. E., and D. W. Glover. The Restoration of Telephone Apparatus affected by Enemy Action	36	25			
Richards, C. E., and F. C. Bond. Damage to Lead-Sheathed Cables by Caterpillars	29	239			
Richards, C. E., L. L. Hall and H. S. Lloyd. The Localisation of Small Leaks in the Underground Transmission Line System at Cooling Radio Station	32	138			
Richards, C. E. The Detection of Poisonous Gases in Underground Workings	30	110			
Richards, C. E., W. G. Radley, E. A. Speight and E. V. Walker. Modern Materials in Telecommunications	33	53, 127, 189			
	34	19, 72, 179			
	35	15, 84			
Richards, D. L., and R. O. Carter. Prin- ciples of Design of Smoothing Chokes	34	118			
Richards, E. M., and E. G. Furneaux. The Nevin-Dublin Carrier System for Tele- phony and V.F. Telegraphs	32	118			

	VOL.	PAGE.		VOL.	PAGE.
Scowen, F., and V. G. Welsby. A Group Inverter for 12-Circuit Carrier Systems	33	183	Smith, N. D., and J. J. Roche. New Lamp Signalling P.M.B.X. Switchboard ...	35	57
Scutt, W. D., Promotion to Chief Regional Engineer (S) ...	31	311	Smoothing Chokes, Principles of Design of Solid Wax Joint for Interruption Cable, A (S) ...	34	118
Sea Cables—St. Margaret's Bay ...	32	71	Somerset House P.A.B.X. ...	31	137
Seaman, E. C. H., and R. F. J. Jarvis. The Effect of Noise and Interfering Signals on Television Transmission ...	32	193	Soons, A. T. Slewing and Lowering existing Ducts and Cables ...	31	201
Seaman, E. C. H., and R. F. J. Jarvis. The Essential Characteristics of Television Circuits ...	32	224	Soons, A. T. Stream-Damming ...	32	261
Second International Congress for Testing Materials (April 1937) (S) ...	30	114	Soons, A. T. Tunnelling Work in Under-Ground Line Construction ...	30	94
Sediment in Ducts, An Unusual Formation of (S) ...	29	166	South Africa, Automatic Exchange Developments in : Automatic Repeat Metering	31	216
Selector Circuits, 2,000 type, The Development of ...	29	87	Southampton Docks, Mobile Teleprinter Scheme for (S) ...	30	163
Semple, L. G. Promotion to Superintending Engineer (S) ...	31	67	Speaking Clock Service, Distribution of the Speaking Clock, The ...	37	101
Sephton, N. F., and A. J. Jackman. New Tools for Identifying Wires in Cable Joints ...	34	169	Speaking Clock, The ...	29	261
Serious Damage in the West Country due to Lightning and Floods (S) ...	31	237	Special Events—Telegraph Arrangements ...	32	174
Services, Electrical, in Large Buildings ...	31	183	Special Machines and Tests Devised to facilitate the Mechanical Examination of Materials ...	33	88
Services in a Modern P.O. Building ...	34	109	Speight, A. Promotion to Staff Engineer (S)	29	75
Seymour, R. A., and A. J. Jackman. The Application of 12-Circuit Carrier Telephony to Existing Cables ...	34	12	Speight, E. A., O. W. Gill and L. E. Magnusson. The Speaking Clock ...	29	261
Sharp, J., and T. E. Hogg. The C.T.O. Inland Phonogram and Telephone-Telegram Installation ...	30	26	Speight, E. A., W. G. Radley, C. E. Richards and E. V. Walker. Modern Materials in Telecommunications ...	33	53, 127, 189
Shearing, M. R., and H. Barker. Telephone Communication with the Scilly Islands	31	101		34	19, 72, 179
Sheath Punctures in Armoured Cables, Localisation of, by CO ₂ Gas ...	37	116		35	15, 84
Sheaths, Cable, Lead Alloys for (S) ...	29	58	Spinning Method, Aerial Cable Suspension by the ...	38	19
Shifting Main Aerial Cable Route (S) ...	37	62	Spliced, Double-, 113-ft. Poles, Erection of (S) ...	37	61
Shoreham-by-Sea, Cable Fault at (S) ...	32	265	Splicing and Reconditioning Cable ...	38	22
Signalling Equipment, A Mains Driven 500/20 c/s ...	37	97	Spray, Sulphuric Acid, in and near Battery Rooms (S) ...	29	234
Signalling, New Lamp, P.M.B.X. Switchboard ...	35	57	Stabilised Repeater and its Application to Trunk Circuits, A ...	31	126
Signalling on Trunk Circuits: Introduction of Two-Frequency Working ...	29	41	Stability and Performance of the Single "Rectified Reaction" Stage, The ...	30	294
Silica Gel ...	29	241	Stainless Steel-Sheathed Aerial Cable ...	36	107
Simmonds, J. C., and R. F. J. Jarvis. Measurements on High Frequency Cables and Feeders ...	36	37, 76	Stamp-Selling Machines, The Development of, in the British Post Office ...	30	18
Simple Introduction to the use of Statistics in Telecommunications Engineering, A—Part I.—The Normal Probability Law	34	36	Standardisation of Wires used in Telephone Exchanges ...	35	20
Part II.—Analysis of Small Samples ...	34	79	Standards of Length ...	29	59
Part III.—The Poisson Probability Law	34	139	Stand-by Generating Plant, A ...	35	115
Part IV.—Correlation and Regression	34	173	Stanesby, H., and E. R. Broad. Channel Filters employing Crystal Resonators ...	31	254
Simple Narrow-Band Crystal Filter, A ...	35	4	Stanesby, H., and E. R. Broad. Narrow Band Filter using Crystal Resonators, A	33	176
Simple Transmission Measuring Equipment, A ...	30	52	Stanesby, H., and E. W. Ayers. Some Aspects of Crosstalk between Unbalanced Circuits	36	14
Simple Transmission Theory relating to the Matching of Radio Feeder Lines ...	31	210	Stanesby, H. A Resistance Compensated Band Stop Filter ...	33	82
Simplification of Cable Capacitance Networks	36	82	Stanesby, H. A Simple Narrow-Band Crystal Filter ...	35	4
Simplified Compandor Equipment for Trunk Circuits, A ...	33	120	Stanesby, H., E. R. Broad and R. L. Corke. Calculation of Insertion Loss and Phase Change of 4-Terminal Reactance Networks ...	35	88, 111
Simplified Method of Utilising the Single Mean "t" Test ...	36	18	Stanesby, H. The Operation of Filters in Parallel ...	32	135
Single Mean "t" Test, Simplified Method of Utilising the ...	36	18	Statistical Theory applied to the Testing of Mass-Produced Articles ...	31	305
Sinking of Conduits at Stoke-on-Trent (S) ...	30	336	Statistics in Telecommunications Engineering A Simple Introduction to the Use of ...	34	36, 79, 139, 173
Sir George Lee, Knighthood of (S) ...	30	67	Stevens, E. C. C., and J. Cullum. Noise and Treatments for its Reduction in Telephone Exchange Manual Switchrooms	31	57
Skuse, C. E. C. Insulating Gaps as a Remedy to Electrolytic Action ...	33	115	Stevens, H. E., and E. W. Ayers. Multi-phone Working ...	33	60
Slewing and Lowering a 3-way Duct ...	33	99	Stevens, S. T. Modern Developments in Television ...	30	37, 129
Slewing and Lowering existing Ducts and Cables ...	31	201	Stewart, D. Standardisation of Wires used in Telephone Exchanges ...	35	20
Smith, C. N., and R. C. Devereux. Replacement of London Toll Exchanges ...	35	105			
Smith, H. S., T. H. Flowers and B. M. Hadfield. Signalling on Trunk Circuits: Introduction of Two-Frequency Working	29	41			

	VOL.	PAGE.
Stiles, O. S., and F. J. W. Lidstone. Artificial Life Tests of Cords and Flexible Conductors	32	130
St. Margaret's Bay Sea Cables	32	71
Storm Damage, 1935-36	29	66
Storm Damage, January, 1940	33	33
Storm Damage to the Main Aerial System at Rugby Radio Station	33	134
St. Paul's Tube Station, The New	31	301
Stranraer-Belfast, Additional Group Modular Carrier Systems between	32	112
Stranraer-Belfast Cable Carrier System, The	31	23
Stratton, J. Storm Damage, 1935-36	29	66
Stream-Damming	32	261
Street Traffic Control Centralised in the Telephone Exchanges in Amsterdam	30	81
Study of Small Mechanical Movements with the Duddell Oscillograph, The	31	112
Subaqueous Cable at Chesil Bank, Dorset (S)	31	77
Subaqueous Cable at Milford Haven	31	159
Subaqueous Cables across the River Trent (S)	35	38
Subjective Methods, Telephone Transmission Testing by	31	286
Submarine Cable across the Duddon Estuary (S)	32	74
Submarine Cable at Dartmouth, Landing of the Jersey-Guernsey-Compass Cove (S)	31	237
Submarine Cable to Pangkor, Malaya, The	32	85
Submarine Cables, Anchoring of (S)	36	124
Submarine Cables, A Recent Development in Telegraph Repeaters for	38	34
Submarine Cables, Loch Awe	30	235
Submarine Cables, Portsmouth Harbour (S)	30	249
Submarine Cables, The Application of Carrier Systems to	35	79, 121
Submerged Repeater, The First	37	33
Subscribers' Distribution in Suburban Areas, Construction Standards for	29	200
Subscribers' Intercommunicating Table Telephone Set, A New	33	39
Subscribers' Premises, Wiring of (S)	31	279
Subtraction and Addition Logarithms	32	244
Sudell, G. R., and F. Wilson. Multi-Fee Call Dialling and Registration at Non-Director Exchanges	31	5
Sulphate Attack on Concrete	31	265
Sulphuric Acid Spray in and near Battery Rooms (S)	29	234
Sulston, W. J., and R. A. Eades. Recent Developments in W.D. Telephone Switchboards	38	70
Supply of Power for Telephone Exchanges, The	32	184
Suppression of Radio Interference from Electro-Medical and certain other types of High-Frequency Apparatus, The	35	23
Suspension, Aerial Cable, by the Spinning Method	38	19
Suspension Bridge, Reconstruction of The Menai	32	75
Swanwick Convention (1939), The	32	191
Swiss Cottage and Finchley Road Metropolitan Railway Improvements. The Post Office Work in Conjunction with	32	39
Switchboard Installation at Manchester, Metropolitan Vickers New (S)	32	217
Switchboard, New Lamp Signalling P.M.B.X.	35	57
Switchboard, Teleprinter Broadcast, Remote Control of a	37	86
Switchboards, Recent Developments in W.D. Telephone	38	70
Switchrooms, Telephone Exchange Manual, Noise and Treatments for its Reduction in	31	57
Symbols, Nomenclature and, for Telecommunications	30	310
Synchronisation, Carrier Frequency (S)	32	223

	VOL.	PAGE.
Synchronising Signal, The Generation and Distribution of a Standard 1 kc/s	34	156
Synthetic Alternatives to Natural Rubber, A Brief Survey of	37	11

T

Tanner, G. F. Hardness Testing	29	110
Tanner, G. F. Impact Testing	29	309
Tanner, G. F. Standards of Length	29	59
Tanner, G. F. The Production of Portland Cement	30	200
Tay Estuary, Laying of Submarine Cable across the (S)	29	338
Taylor, E. A., and D. W. Glover. A Review of War-Time Fuels for Road Vehicles	34	151
Taylor, F. J. D., and E. M. Richards. The Belfast-Stranraer Cable Carrier System	31	23
Taylor, F. J. D. Carrier System No. 7	34	101, 161
Taylor, F. J. D. Group Inverter Equipment	35	130
Taylor, F. J. D. Music Channels	31	278
Technical Publications of the International Tin Research and Development Council (S)	30	164
Telecommunications in Wartime, Safeguarding	38	127
Telecommunications Network for Defence, The—		
Part 1. The Defence Teleprinter Network	38	121
Part 2. The Network of Telephone Circuits and the Defence Telecommunications Control	38	125
Telegraph Office, Central, The Equipping of the Reconstructed	38	11
Telegraph Repeaters for Submarine Cables, A Recent Development in	38	34
Telegraph Arrangements, Special Event	32	174
Telegraph Terminal at Bangor, The New	29	327
Telephone Apparatus affected by Enemy Action, The Restoration of	36	25
Telephone Apparatus, Flameproof	37	81
Telephone Communication with the Scilly Islands	31	101
Telephone Interference (S)	29	336
Telephone, The Pendant	32	59
Telephone, The Three Millionth (S)	31	63
Telephone Transmission Testing by Subjective Methods	31	286
Telephone Transmitter, The: A Suggested Theory of Operation	31	167
Telephoning the Outer Hebrides (S)	31	326
Telephones, Army, Improvements in (S)	38	101
Teleprinter Ancillary, The	29	119
Teleprinter Broadcast Switchboard, Remote Control of a	37	86
Teleprinter Private Services, Growth of	29	290
Teleprinter Private-Wire Service (S)	29	207
Teleprinter Scheme, Mobile, for Southampton Docks (S)	30	163
Teleprinter Switching, Automatic	29	217
Teleprinter Working, Long Distance (S)	30	243
Television Circuits, The Essential Characteristics of	32	224
Television, Modern Developments in	30	37, 129
Television Transmission. The Effect of Noise and Interfering Signals on	32	193
Television Twin Cable Links, London's	30	215
Temperature Control for Oscillators of Stable Frequency	35	8
Test Desk Serving Metropolitan, National and London Wall Exchanges, The	29	135

	VOL.	PAGE.
Test Desks, Recent Changes to Equipment on (S)	33	38
Test, London Cable	36	51
Testing of Mass-Produced Articles, Statistical Theory Applied to the	31	305
Thompson, H. S. Transfer to Northern Ireland District (S)	30	246
Thorn, D. A., and A. H. Mumford. The Introduction of Ultra-Short Wave Radio Links into the Telephone Network ...	31	93
Three Millionth Telephone, The (S)	31	63
Thrust Boring, Multi-Way (S)	33	146
Tillman, J. R., and A. C. Lynch. Emission-Type Photo-Electric Cells	36	43
Timmis, A. C. Echo Effects in relation to the European Trunk Switching Plan ...	31	16
Timmis, A. C. Problems involved in the Preparation of a European Trunk Switching Plan	30	32
Timmis, A. C. The Creepage of Underground Cables	30	180
Timmis, A. C. The Negative Feed-Back Amplifier—A Mechanical Analogy ...	29	71
Tin Research and Development Council, International, Technical Publications of (S)	30	164
Toll Exchanges, Replacement of London ...	35	105
Tolley, L. L., and W. A. J. Paul. The Photographic Recording of Subscribers' Meter Readings	31	207
Tools, New, for Identifying Wires in Cable Joints	34	169
Tools, Some American Army Line Construction	36	53
Torcross (Devon), Fire at Telephone Exchange (S)	29	77
Townsend, E. H. The Study of Small Mechanical Movements with the Duddell Oscillograph	31	112
Townshend, H. The Financial Effects of Recent Reductions in Telephone Charges (Inland Service)	32	165
"Town-Type" Cable Drum Trailer, A (S) ...	30	214
Traffic and Delay Formulae	29	188
Training and Recruitment of Post Office Workmen	29	94
Training School, Birmingham Regional (S) ...	31	323
Training School, Manchester Regional (S) ...	29	249
Transatlantic Radio Circuit, a Short Wave Single Sideband, The Application of a Constant Volume Amplifier to	31	104
Transatlantic Radio Receiver, A New Short-wave	32	24
Transmission Measuring Equipment, A Simple	30	52
Transmission Theory relating to the Matching of Radio Feeder Lines, Simple ...	31	210
Transmitter, A Method of Equalising the Frequency Characteristic of a Telephone Transmitter Inset No. 13	29	355
Transmitter, The Telephone: A Suggested Theory of Operation	31	167
Transformer Letter Sorting Machine, The Transportable Battery Charging Sets for Emergency Purposes (S)	31	227
Treatment of Displaced Plant in Engineering Economic Cost Comparisons, The Tree Root Accumulation in Manhole (S) ...	33	144
Trent River, Subaqueous Cables across the (S)	35	38
Tropical Communication Equipment, Notes on the Design of	29	275
Tropical Countries, Pole Routes in	33	63
Trunk and Toll Exchange, Birmingham ...	29	314
Trunk Circuits, A Simplified Compandor Equipment for	33	120
Trunk Delay Announcing	35	73
Trunk Switching Plan, European, Echo Effects in relation to the	31	16

	VOL.	PAGE.
Trunk Switching Plan, European, Problems involved in the Preparation of a ...	30	32
Trunk Units, Portable	37	105
Trussler, H. The Ladder Derrick for Overhead Work	31	267
"t" Test, Single Mean, Simplified Method of Utilising the	36	18
Tube Station, The New St. Paul's	31	301
Tubes, Pneumatic Despatch, their Economics and Uses	31	64
Tucker, D. G., and H. J. Marchant. Frequency Division without Free Oscillation	35	62
Tucker, D. G., and R. J. Halsey. The Provision of Music Channels on 12-Channel Carrier Cables	31	280
Tucker, D. G. Carrier Frequency Synchronisation	33	75
Tucker, D. G. Constant Impedance Networks for Line Equalisation	29	302
Tucker, D. G. Impedance Matching Networks for Unloaded Cable	34	187
Tunnel, Railway, Crossing, Glasgow (S) ...	31	240
Tunnelling Work in Underground Line Construction	30	94
Turner, E. J. V., and Lt. F. Daniels. Some American Army Line Construction Tools	36	53
Two-Frequency Signalling, Introduction of, on Trunk Circuits	29	41
2 V.F. and Seven-Digit Automatic Working, London Trunk Exchange, Introduction of	33	1
Tyson, W. R. Channel Islands Communications and the War	38	102

U

Ultra-Short Wave Radio Links. Introduction into the Telephone Network	31	93
Ultra-Short Wave Radio Telephone Circuit, The Guernsey-Chaldon	29	124
Ultra-Short Wave Radio Telephone System, 9-Circuit, The Belfast-Stranraer	31	33
Ultra-Short Wave Station, Enoch Hill, Portpatrick (S)	29	338
Unbalanced Circuits, Some Aspects of Crosstalk between	36	14
Underground Distribution in Residential Areas, Direct	30	152
Underground Line Construction, Tunnelling Work in	30	94
Underground Transmission System at Cooling Radio Station, The Localisation of Small Leaks in the	32	138
Unit Automatic Exchange, No. 13, The ...	29	141
Unit Automatic Exchange, No. 14, The ...	31	41
Unit Bay 1B Coaxial Cable Transmission System, The—		
Part 1. General Description of the System	38	43
Part 2. Intermediate Repeater Station Equipment	38	82
Part 3. Terminal Repeater Station Equipment	39	14
Part 4. The Installation and Operation of Unit Bay 1B Systems	39	61
Universal Decimal Classification of Information. The	32	56
Unusual Cabling Operation, An (S)	29	162
Unusual Damage by Lightning (S)	31	324
Unusual Duct Obstruction (S)	36	62
Unusual Formation of Sediment in Ducts, An (S)	29	166

	VOL.	PAGE.
Unusual Lift Fault, An (S)	38	61
Use of the Chain Puller in Cases of Cable Creepage, The (S)	38	29
Utility Vehicle, The History and Development of the 30-cwt	31	12

V

Valentia Radio Station, The External Modernisation of	29	285
Variation of the Holding Times of Telephone Calls, The	30	46
Vehicle, 30-cwt. Utility, The History and Development of the	31	12
Vehicles, Electric Battery, for Postal Work	37	48
Vehicles, Road, A Review of War-Time Fuels for	34	151
Venus, W. A. H., and H. E. Barnett. The Application of Hollerith Accounting Machines to the Distribution of Engineering Instructions	32	94
Vertical Mails Elevator, A	36	33
Victory Number, Foreword to	38	97
Visit of I.P.O.E.E. Council to Shrewsbury (March 1937)	30	158
Visual System of Works Control, Colourdex Voice-operated Relay for use on Long Distance Private Wires, A	29	70
	33	66

W

Walker, D. C., and R. O. Carter. Noise-Eliminating Unit for Junction Circuits exposed to Power Induction	33	186
Walker, E. V. The Fatigue Testing of Wire	29	237
Walker, E. V., W. G. Radley, C. E. Richards, and A. E. Speight. Modern Materials in Telecommunications	33	53.
	34	127, 189
		19.
	35	72, 179
		15, 84
Walmsley, T. Promotion to Staff Engineer (S)	30	68
Walmsley, T. Wire Broadcasting	31	213
Walton, G. H., and W. Bocoock. Loch Awe Submarine Cables	30	235
Walton, J. M. Fault Localisation with Gas-Filled Cables	30	237
Warning System, The Air Raid	38	98
Water, Dangerous (S)	30	254
Water, Ground, Lowering, Methods of	35	1
Water, Ground, Lowering (S)	35	100
Water, Ground, Lowering (S)	36	93, 125
Waterloo Bridge—Alteration of Post Office Plant	30	48, 103
Waters, H. S. Portable Trunk Units	37	105
Wax Heater, An Electric	31	225
Waxing Baths, Electrically-heated, for Switchboard Cables (S)	29	236
Welding, The Application of, to Repair Work	35	50
Welsby, V. G., and F. Scowen. A Group Inverter for 12-Circuit Carrier Systems	33	183
Welsby, V. G. The Measurement of the Loss Coefficients of Magnetic Dust Core Materials	35	46

Y

	VOL.	PAGE.
West, W. Telephone Transmission Testing by Subjective Methods	31	286
Wheatstone Transmitter, The Development of a New	37	7
Whenmouth, H. Waterloo Bridge—Alteration of Post Office Plant	30	48, 103
Wickens, W. R. Safeguarding of Essential Records by Photography	37	17
Wide-Range Beat-Frequency Oscillator, A	35	28
Williams, E. G. Polythene and its Uses as a Dielectric	37	40
Williams, F. C., and A. Fairweather. A "Chopped Signal" Vacuum Tube Generator with Good Voltage Regulation	32	104
Williams, F. C., and A. Fairweather. The Stability and Performance of the Single "Rectified Reaction" Stage	30	294
Williams, H. A Mains Driven 500/20 c/s Signalling Equipment	37	97
Williams, H., and S. Rudeforth. The Problems associated with Impulsing in Non-Director Areas	30	191, 320
	31	191
	36	103
Williams, H. The Automatic Level Recorder	36	103
Williams, H. The new Amplifier No. 32 and Associated Equipment	34	60
Wilson, F., and G. R. Sudell. Multi-Fee Call Dialling and Registration at Non-Director Exchanges	31	5
Wire, Copper, Manufactured from Fire-refined Copper (S)	29	52
Wire Broadcasting	31	213
Wire, The Fatigue Testing of	29	237
Wireless Transmitters and Other Electrical Apparatus under the Defence Regulations, 1939, Control of	33	28
Wires in Cable Joints, New Tools for Identifying	34	169
Wires, Magnesium Limestone Deposit on O/H (S)	38	28
Wires, Overhead, Joints in (S)	29	69
Wires, P.O., Interference on, from E.H.T. Network (S)	34	147
Wires used in Telephone Exchanges, Standardisation of	35	20
Wiring of Modern Buildings (S)	30	254
Wiring of Subscribers' Premises (S)	31	279
Wood, P. T., Retirement of (S)	31	153
Woodcock, W., and H. L. Claxton. The Test Desk Serving Metropolitan, National and London Wall Exchanges	29	135
Wooden Pole Arms (S)	30	137
Works, London, Reconstruction (S)	29	339
Workshops, The London Telecommunications Region Power Section	36	48
Worthington, C. E., G. A. Alston, F. E. Bland and C. F. Perryman. The Battle of the Atlantic and the Post Office	38	113
Wright, A. Retirement of (S)	31	68
Wright, C. H. The London Fire Brigade Alarm System	30	284
Wright, J. E. Some Notes on the Engineer-in-Chief's Library	36	71
Wright, J. E. The Universal Decimal Classification of Information	32	56
Wright, J. S. Distribution of Power in 2,000-type Exchanges	33	71
Young People's Telephone Exhibition	30	61