

The Post Office Electrical Engineers' Journal

INDEX

VOLUME 60

April 1967—January 1968

INDEX

	PAGE NO.		PAGE NO.
A			
Ambergate Electronic Exchange (S)	77	CROISDALE, A. C., and HUNT, C. S. Synchronous Multiplex Telegraphy on Intercontinental Submarine Telephone Cables	52
Announcer, No. 9A, A New Announcing Equipment— Equipment,	264	CROOKS, K. R., and HOLMES, A. C. Programmed Learning— A New Design for Training (Part I)	253
Artificial Ear, A New	47	CROSBY, G. W. A Test Instrument with a Direct-Reading Fault Bridge—Ohmmeter No. 18A	285
ASKEW, E. A. Recent Changes to Telephone Exchange Equipment Engineering and Installation Methods	59	Crossbar Equipment, Transit Switching Centres Using BxB 1121	302
Associate Section Notes	78, 158, 238, 312	Customer Response to Telephone Circuits Routed Via a Synchronous-Orbit Satellite	181
Automatic Error-Correcting Radio-Telegraph Multiplex System, An	187		
AYERS, E. W., and WILLIAMS, F. E. Human Factors in Telephony	174		
B			
BARRON, D. A. (Retirement)	138	D	
BAILEY, K. E. A New Announcing Equipment—Equip- ment, Announcer, No. 9A	264	DANIELS, E. E., and ELLIS, W. A. Switching and Signalling Techniques for the Intercontinental Automatic Telex Service (Parts 1 and 2)	210, 266
BILLEN, J. C. (Appointment as Staff Engineer)	151	DAVIES, W. M., and PERKINS, K. G. The PVR 800 High- Frequency (3–30 MHz) Radio Receiver	204
Birmingham, Tunnelling by Pipe Thrusting in (S)	312	Decibelmeter for Audio Frequencies, A Digital-Display	274
BISHOP, K. G. T., and ROBINSON, H. E. Joint Loading of Local-Line Cables	101	Designing a Voice-Switched Loudspeaking Telephone— Loudspeaking Telephone No. 4	65
BOAG, J. F., and HEPPELSTONE, L. Transatlantic Telephone Cable TAT-I Plus Ten Years	195	Dessicator, Automatic, No. 1A, An Improved Dessicator for Pressurizing Telecommunication Cables—	224
Box-Building Vehicle, The Development of a	131	DEUTSCH, E. S. Computer Simulation of a Character- Recognition Machine (Parts 1 and 2)	39, 104
Brazed Seals in Deep-Sea Repeaters, Quality Control of	44	Development of a Box-Building Vehicle, The	131
Bridgwater Head Post Office Foundation Stone (S)	311	Digital Display Decibelmeter for Audio Frequencies, A	274
BROCKBANK, R. A. (Retirement)	152	Drying Out Joints in Paper-Core Cables (S)	180
Burnley Exchange Rearrangements (S)	237	Dual-Frequency-Band Horn-Aerial Systems	217
C			
Cable Joints and Gland Mouldings, X-Ray Inspection of Polythene-Insulated Submarine	280	E	
Cable TAT-I Plus Ten Years, Transatlantic Telephone	195	Echo Suppressor for Long-Distance Communications, A New	288
Cables—Dessicator, Automatic, No. 1A, An Improved Dessicator for Pressurizing Telecommunication	224	Electronic Telephone Exchanges: An Introduction to Switching Network Design	124
Cables, Drying Out Joints in Paper-Core (S)	180	Electronic Telephone Exchanges: Reed Relays for Exchange Systems	140
Cables, Joint Loading of Local-Line	101	Electronic Telephone Exchanges: Reed-Selector System Field Trial at Belgravia Exchange, London	293
Cables, Synchronous Multiplex Telegraphy on Inter- continental Submarine Telephone	52	ELEY, A. C., and LOWE, W. T. Electronic Telephone Exchanges: Reed Relays for Exchange Systems	140
Call-Failure Detection Equipment: Interim Equipment for Director and Non-Director Exchanges	202	ELLEN, L. W., and COYTE, A. A Digital-Display Decibel- meter for Audio Frequencies	274
CALVELEY, C. E. (Appointment as Director of Engineering) Changes in Post Office Organization	150	ELLIS, W. A., and DANIELS, E. E. Switching and Signalling Techniques for Intercontinental Automatic Telex Service (Parts 1 and 2)	210, 266
Character-Recognition Machine, Computer Simulation of a (Parts 1 and 2)	39, 104	Engineers-in-Chief, Ninety-Seven Years of	83
CHARLTON, E. W. Trench-Cutting Machines	14	Equipment, Announcer, No. 9A, A New Announcing Equipment—	264
CHESTERMAN, D. A. An Automatic Error-Correcting Radio-Telegraph Multiplex System	187	Error-Correcting Radio-Telegraph Multiplex System, An Automatic	187
Closed-Circuit Television at the University of Leeds (S)	156	European Organization for Quality Control 11th Annual Conference, London, June 1967	226
Coleshill U.A.X. 14, Fire at (S)	311	Exchange Equipment Engineering and Installation Methods, Recent Changes to Telephone	59
COLYER, J. O. A New Manhole-Cover Lifter—Lifter, Manhole Cover, No. 3	251		
Computer, Information Indexing by	28	F	
Computer Simulation of a Character-Recognition Machine Part 1—Processing a Character for Recognition	39	FIDDLER, R. G., and COPPING, B. Designing a Voice- Switched Loudspeaking Telephone—Loudspeaking Telephone No. 4	65
Part 2—Information Recording and Character Recognition	104	Fire at Coleshill U.A.X. 14 (S)	310
Conference on Plastics in Telecommunication Cables, London, April 1967 (S)	121	Fire at Worcestershire Police Headquarters (S)	76
Conveyance of Mail by Electric Vehicles	170	Fowey-Polruan Submarine Cable (S)	236
COPPING, B., and FIDDLER, R. G. Designing a Voice- Switched Loudspeaking Telephone—Loudspeaking Telephone No. 4	65	FRANÇOIS, R. A., and HOLLIGON, E. R. Measuring Quality of Service on Trunk Routes	227
COSIER, J. E. H., and WINDLE, R. W. X-Ray Inspection of Polythene-Insulated Submarine-Cable Joints and Gland Mouldings	280	FRANKLIN, R. H. (Retirement)	72
COYTE, A., and ELLEN, L. W. A Digital-Display Decibel- meter for Audio Frequencies	274	FREEBODY, J. W. H. (Retirement)	233

	PAGE NO.
G	
GAUNTLETT, R. D. Dual-Frequency-Band Horn-Aerial Systems	217
Grangemouth Exchange, Unusual Corrosion in Lead-in Cables at (S)	310
H	
HALEY, G., and KOLANOWSKI, J. Pressure and Temperature Transducers for Deep-Sea Measurements	133
HARRIS, L. R. F. (Appointment as Staff Engineer)	74
HAYTHORNTHWAITE, F. Ratchet Relay No. 2	97
HEPPLESTONE, L., and BOAG, J. F. Transatlantic Telephone Cable TAT-I Plus Ten Years	195
HEWARD, F. C. Information Indexing by Computer	28
HOLLIGON, E. R., and FRANÇOIS, R. A. Measuring Quality of Service on Trunk Routes	227
HOLMES, A. C., and CROOKS, K. R. Programmed Learning—A New Design for Training (Part 1)	253
Horn-Aerial Systems, Dual-Frequency-Band	217
Human Factors in Telephony	174
HUNT, C. S. A Wideband Multi-Channel Voice-Frequency Telegraph System	10
HUNT, C. S., and CROISDALE, A. C. Synchronous Multiplex Telegraphy on Intercontinental Submarine Telephone Cables	52
HUNT, R. J. The Pole-Erection Unit	93
HUTTER, J. Customer Response to Telephone Circuits Routed Via a Synchronous-Orbit Satellite	181
I	
Improved Dessicator for Pressurizing Telecommunication Cables—Dessicator Automatic, No. 1A, An	224
Information Indexing by Computer	28
Inspection of Polythene-Insulated Submarine-Cable Joints and Gland Mouldings, X-Ray	280
Installation of Expedient Racks in Telephone Exchanges (S)	157
Institution of Post Office Electrical Engineers	75, 154, 234, 308
Integrated Circuits, Semiconductor Device Developments: (Parts 1 and 2)	20, 110
ITHELL, A. H., and WILLIAMS, F. E. A New Artificial Ear	47
J	
JEYNES, E. Planning and Works Aspects of 24-Circuit Pulse-Code-Modulation Systems	33
Joint Loading of Local-Line Cables	101
Joints and Gland Mouldings, X-Ray Inspection of Polythene-Insulated Submarine-Cable	280
JOLLEY, E. H. Ninety-Seven Years of Engineers-in-Chief	83
K	
Kidderminster Inner Ring Road (S)	158
KOLANOWSKI, J., and HALEY, G. Pressure and Temperature Transducers for Deep-Sea Measurements	133
L	
LAVER, K. S. The Progressive Development of Routiners for Automatic Telephone Exchanges	118
Lifter, Manhole Cover, No. 3, A New Manhole-Cover Lifter—	251
LLOYD, H. F., and SIXSMITH, J. A Television-Network Switching Equipment to 625-Line Colour Standards	199
Loading of Local-Line Cables, Joint	101
Long-Distance Communications, A New Echo Suppressor for	288
Loudspeaking Telephone No. 4, Designing a Voice-Switched Loudspeaking Telephone—	65
LOWE, W. T., and ELEY, A. C. Electronic Telephone Exchanges: Reed Relays for Exchange Systems	140
M	
Manhole Cover, No. 3, A New Manhole-Cover Lifter—	251
MARCHINTON, A., and SHEPPARD, N. F. Quality Control of Brazed Seals in Deep-Sea Repeaters	44
MARTIN, J. Electronic Telephone Exchanges: An Introduction to Switching Network Design	124

	PAGE NO.
M	
MCLUSKY, R. F., WALKER, N., and STALLWORTHY, F. A. Transit Switching Centres Using BXB 1121 Crossbar Equipment (Part 1)	302
Measuring Quality of Service on Trunk Routes	227
Men, Circuits and Systems in Telecommunications	241
MERRIMAN, J. H. H. (Appointment as Senior Director of Engineering)	139
MERRIMAN, J. H. H. Men, Circuits and Systems in Telecommunications	241
Miniature Public-Address System (S)	77
MORGAN, T. J. (Appointment as Chief Regional Engineer)	153
MORTON, W. D. Semiconductor Device Developments: Integrated Circuits (Parts 1 and 2)	20, 110
MOTT, W. W. An Improved Dessicator for Pressurizing Telecommunication Cables—Dessicator, Automatic, No. 1A	224
MURRAY, W. J. A Voice-Frequency Signalling System for Out-of-Area Exchange Lines	259
MYERSON, R. J. W. St. Margaret's Bay—La Panne 420-Circuit Submarine-Cable System with Transistor-Type Submerged Repeaters	1
N	
New Announcing Equipment—Equipment, Announcer, No. 9A, A	264
New Artificial Ear, A	47
New Dial-Pulse Detector, A	300
New Echo Suppressor for Long-Distance Communications, A	288
New Manhole-Cover Lifter—Lifter, Manhole Cover, No. 3, A	251
New Telephone Manager's Office for Belfast (S)	76
NEWELL, E., and PEACOCK, R. D. Electronic Telephone Exchanges: Reed-Selector System Field Trial at Belgravia Exchange, London	293
Ninety-Seven Years of Engineers-in-Chief	83
Notes and Comments	72, 150, 233, 308
O	
Ohmmeter No. 18A, A Test Instrument with a Direct-Reading Fault Bridge—	285
Out-of-Area Exchange Lines, A Voice-Frequency Signalling System for	259
P	
PEACOCK, R. D., and NEWELL, E. Electronic Telephone Exchanges: Reed-Selector System Field Trial at Belgravia Exchange, London	293
Peldon U.A.X. 13, Removal of (S)	311
PERKINS, K. G., and DAVIES, W. M. The PVR 800 High-Frequency (3–30 MHz) Radio Receiver	204
Planning and Works Aspects of 24-Circuit Pulse-Code-Modulation Systems	33
Plastics in Telecommunication Cables, London, April 1967, Conference on (S)	121
Pole-Erection Unit, The	93
Polythene-Insulated Submarine-Cable Joints and Gland Mouldings, X-Ray Inspection of	280
Post Office Relay Type 2D (S)	168
Pressure and Temperature Transducers for Deep-Sea Measurements	133
Programmed Learning—A New Design for Training Part 1—An Introduction to Programmed Learning	253
Progressive Development of Routiners for Automatic Telephone Exchanges, The	118
Public Utility Street Works Act, 1950; Calculation of Benefit by Deferment of Renewal Allowance (S)	19
Pulse-Code-Modulation Systems, Planning and Works Aspects of 24-Circuit	33
PVR 800 High-Frequency (3–30 MHz) Radio Receiver, The	204
PYRAH, J. D. Call-Failure Detection Equipment: Interim Equipment for Director and Non-Director Exchanges	202
Q	
Quality Control 11th Annual Conference, London, June 1967, European Organization for	226
Quality Control of Brazed Seals in Deep-Sea Repeaters	44
Quality of Service on Trunk Routes, Measuring	227

	PAGE NO.		PAGE NO.
R		T	
Radio Receiver, The PVR 800 High-Frequency (3-30 MHz)	204	TAT-I Plus Ten Years, Transatlantic Telephone Cable ..	195
Radio-Telegraph Multiplex System, An Automatic Error-		Telecommunications, Men, Circuits and Systems in ..	241
Correcting	187	Telegraph-System, A Wideband Multi-Channel Voice-	
Ratchet Relay No. 2	97	Frequency	10
Recent Changes to Telephone Exchange Equipment		Telegraphy on Intercontinental Submarine Telephone	
Engineering and Installation Methods	59	Cables, Synchronous Multiplex	52
Reed Relays for Exchange Systems, Electronic Telephone		Telephone Circuits Routed Via a Synchronous-Orbit	
Exchanges:	140	Satellite, Customer Response to	181
Reed-Selector System Field Trial at Belgravia Exchange,		Telephony, Human Factors in	174
London, Electronic Telephone Exchanges:	293	Television-Network Switching Equipment to 625-Line	
Regional Notes	76, 156, 236, 310	Colour Standards	199
Relay Type 2D, Post Office (S)	168	Telex Service, Switching and Signalling Techniques for the	
Relay, No. 2, Ratchet	97	Intercontinental Automatic (Parts 1 and 2)	210, 266
Relief of Skelmersdale, The (S)	236	Test Instrument with a Direct-Reading Fault Bridge—	
Removal of Peldon U.A.X. 13 (S)	311	Ohmmeter No. 18A, A	285
Repeaters, Quality Control of Brazed Seals in Deep-Sea ..	44	THOMAS, J. F. P. (Appointment as Staff Engineer)	73
ROBINSON, H. E., and BISHOP, K. G. T. Joint-Loading of		TOBIN, W. J. E. The Signalling and Switching Aspects of the	
Local-Line Cables	101	Trunk Transit Network	165
Rocket-Assisted Maintenance (S)	158	Training, Programmed Learning—A New Design for	253
Routiners for Automatic Telephone Exchanges, The Pro-		Transatlantic Telephone Cable TAT-I Plus Ten Years ..	195
gressive Development of	118	Transducers for Deep-Sea Measurements, Pressure and	
		Temperature	133
S		Transistor-Type Submerged Repeaters, St. Margaret's Bay—	
SANDER, D. H. Conveyance of Mail by Electric Vehicles ..	170	La Panne 420-Circuit Submarine-Cable System with ..	1
SANDS, M. J. E. A New Dial-Pulse Detector	300	Transit Switching Centres Using BXB 1121 Crossbar	
Satellite, Customer Response to Telephone Circuits		Equipment	302
Routed via a Synchronous-Orbit	181	Part 1—Trunking, Facilities and General Operation ..	
SCOWEN, F. (Appointment as Staff Engineer)	153	Transit Network, The Signalling and Switching Aspects of	
Semiconductor Device Developments: Integrated Circuits.		the	165
Part 1—Construction, Properties and Applications ..	20	Transportable Apparatus Hoist, A (S)	157
Part 2—Standard Logic Circuits	110	Trench-Cutting Machines	14
Severn Bridge and Wye Viaduct (S)	77	Trunk Routes, Measuring Quality of Service on	227
SHANKS, P. H. A New Echo Suppressor for Long-Distance		Tunnelling by Pipe Thrusting in Birmingham (S)	312
Communications	288	TYRRELL, W. The Development of a Box-Building Vehicle	131
SHEPPARD, N. F., and MARCHINTON, A. Quality Control of			
Brazed Seals in Deep-Sea Repeaters	44	U	
Signalling and Switching Aspects of the Trunk Transit Net-		Unusual Corrosion in Lead-in Cables at Grangemouth	
work, The	165	Exchange (S)	310
Signalling System for Out-of-Area Exchange Lines, A		Unusual Duct and Manhole Problem (S)	156
Voice-Frequency	259		
Signalling Techniques for the Intercontinental Automatic		V	
Telex Service, Switching and (Parts 1 and 2)	210, 266	Vehicles, Conveyance of Mail by Electric	170
625-Line Colour Standards, A Television-Network Switch-		Voice-Frequency Signalling System for Out-of-Area Ex-	
ing Equipment to	199	change Lines, A	259
SIXSMITH, J., and LLOYD, H. F. A Television-Network		Voice-Frequency Telegraph System, A Wideband Multi-	
Switching Equipment to 625-Line Colour Standards ..	199	Channel	10
Staff Changes	80, 161, 239, 314	Voice-Switched Loudspeaking Telephone—Loudspeaking	
STALLWORTHY, F. A., McLUSKY, R. F., and WALKER, N.		Telephone No. 4, Designing a	65
Transit Switching Centres Using BXB 1121 Crossbar			
Equipment (Part 1)	302	W	
St. Margaret's Bay—La Panne 420-Circuit Submarine-Cable		WALKER, N., STALLWORTHY, F. A., and McLUSKY, R. F.	
System with Transistor-Type Submerged Repeaters ..	1	Transit Switching Centres Using BXB 1121 Crossbar	
Submarine-Cable Joints and Gland Mouldings, X-Ray		Equipment (Part 1)	302
Inspection of Polythene-Insulated	280	Wideband Multi-Channel Voice-Frequency Telegraph	
Submarine-Cable System with Transistor-Type Submerged		System, A	10
Repeaters, St. Margaret's Bay—La Panne 420-Circuit ..	1	WILLIAMS, F. E., and AYERS, E. W. Human Factors in	
Submarine Telephone Cables, Synchronous Multiplex		Telephony	174
Telegraphy on Intercontinental	52	WILLIAMS, F. E., and ITHILL, A. H. A New Artificial Ear ..	47
Switching and Signalling Techniques for the Intercon-		WILLIAMS, M. B. (Appointment as Deputy-Director of	
tinental Telex Service	210	Engineering)	233
Part 1—Type C Signalling	266	WINDLE, R. W., and COSIER, J. E. H. X-Ray Inspection of	
Part 2—London (Fleet) Intercontinental Telex Exchange		Polythene-Insulated Submarine-Cable Joints and Gland	
Switching Aspects of the Trunk Transit Network, The		Mouldings	280
Signalling and	165	WRAY, D. (Appointment as Deputy-Director of Engineering)	151
Switching Equipment to 625-Line Colour Standards, A			
Television-Network	199	X	
Switching Network Design, Electronic Telephone Exchanges:		X-Ray Inspection of Polythene-Insulated Submarine-Cable	
An Introduction to	124	Joints and Gland Mouldings	280
Synchronous Multiplex Telegraphy on Intercontinental			
Submarine Telephone Cables	52		
Systems in Telecommunications, Men, Circuits and ..	241		