

# The Post Office Electrical Engineers' Journal

## INDEX

### VOLUME 63

(April 1970—January 1971)

	PAGE NO.		PAGE NO.
<b>A</b>			
Access to the Winter Hill Radio Station	57	Connexions in the Switched Telephone Network, Transmission Measurements of	97
Aerial, Measurements on Goonhilly 85 ft Diameter—Part 2—Profile Adjustment and Electrical Performance	20	Contacts in Telephone Exchanges: Contact Opening and Closing Phenomena and Quenching Techniques, Electrical Part 2—The Design of Contact Switching Circuits	179
All-Figure Numbers, Birmingham Area	195	Control and Supervisory Systems for Microwave Radio-Relay Links, Remote	169
Answering for Datel Services, Automatic Calling and Automatic	253	Conveyor-Belt Systems, An Anti-Jamming Device for	189
Anti-Jamming Device for Conveyor-Belt Systems, An	189	CROGGS, J. F. Identification of New Cable Pairs	177
Auto-Manual Centres for London, New Generation of	212	CROOKS, K. R. A New Generation of Auto-Manual Centres for London	212
Automatic Answering for Datel Services, Automatic Calling and	253	CROSS, B. The Long Lines Computer Project	24
Automatic Calling and Automatic Answering for Datel Services	253	<b>D</b>	
<b>B</b>			
BACK, R. E. G., and WITHERS, D. J. The Development of the Intelsat Global Satellite Communications System—Part 2—Current Earth-Station Practice and Future Systems	1	Data Transmission, Interfaces for Digital	113
BACKSHALL, G. C. New Duct for the Protection of Shore-Ends of Submarine Cables	218	Data-Transmission Systems, A Line-Transmission Simulator for Testing	117
BARTLETT, G. A., and WALKER, A. F. Telecommunications in Power Stations	38	Datel Services, Automatic Calling and Automatic Answering for	253
Belfast (City) Exchange Conversion, Computer Record for	195	Depreciation, Lives of Plant and	96
BIRCHBY, G., and MOXON, R. L. A New Concrete Tower for Purdown Radio Station	138	Design, Some Principles of Local Telephone Cable	164
Birmingham Area—All Figure Numbers	195	Desk Unit, New 20-Line Key-and-Lamp	232
Boilers, Retubing of Hot-Water	57	Detection Equipment—Standard Equipment for Director and Non-Director Strowger Exchanges, Call-Failure	152
BOTT, A. J., and CASTLE, W. C. Automatic Calling and Automatic Answering for Datel Services	253	Development of the Intelsat Global Satellite Communication System—Part 2—Current Earth-Station Practice and Future Systems	1
BOTT, A. J. Interfaces for Digital Data Transmission	113	Developments in F.D.M. Transistor Line Systems	234
Broadband Radio-Relay Links, Testing of	220	Developments in Medium-Range Ship-to-Shore Radio Services	71
BRONSDON, E. G. Developments in Medium-Range Ship-to-Shore Radio Services	71	Digital Data Transmission, Interfaces for	113
<b>C</b>			
Cable Design, Some Principles of Local Telephone	164	DOHERTY, M. A Land-Rover Mounted Winch	31
Cable Pairs, Identification of New	177	Duct for the Protection of Shore-Ends of Submarine Cables, New	218
Cable-Tube System, London	14	<b>E</b>	
Cables for Schools Closed-Circuit Television Networks, Jointing Coaxial	29	Echo Suppressor No. 7A	86
Cabling on London Bridge	125	Electrical Contacts in Telephone Exchanges: Contact Opening and Closing Phenomena and Quenching Techniques—Part 2—The Design of Contact Switching Circuits	179
Call-Failure-Detection Equipment—Standard Equipment for Director and Non-Director Strowger Exchanges	152	Error-Correcting Telegraph Systems, Stored-Program Character Storage for Automatic,	33
Calling and Automatic Answering for Datel Services, Automatic	253	Exchanges: Contact Opening and Closing Phenomena and Quenching Techniques, Electrical Contacts in Telephone—Part 2—The Design of Contact Switching Circuits	179
CASTLE, W. C., and BOTT, A. J. Automatic Calling and Automatic Answering for Datel Services	253	<b>F</b>	
Character Storage for Automatic Error-Correcting Telegraph Systems, Stored-Program	33	Failure-Detection Equipment—Standard Equipment for Director and Non-Director Strowger Exchanges, Call	152
Closed-Circuit Television Networks, Jointing Coaxial Cables for Schools	29	Fast Signalling in the U.K. Telephone Network	242
Coaxial Cables for Schools Closed-Circuit Television Networks, Jointing	29	F.D.M. Transistor Line Systems, Recent Developments	234
College, The Post Office Technical Training	77	Flying Manhole	125
Computer Project, Long Lines	24	Fox, N. The Post Office Technical Training College	77
Computer Record for Belfast (City) Exchange Conversion	195	<b>G</b>	
Concrete Tower for Purdown Radio Station, A New	138	Gas Turbines for Telecommunications Power Plants	143

	PAGE NO.		PAGE NO.
General Election 1970, London Television Outside Broad- casts	196	MARTIN-ROYLE, R. D., and HEATHER, J. M. Remote Control and Supervisory Systems for Microwave Radio-Relay Links	169
GIPP, J. A. L., and MILLER, J. R. Recent Developments in F.D.M. Transistor Line Systems	234	Measurements of Connexions in the Switched Telephone Network, Transmission	97
Goonhilly 85 ft Diameter Aerial, Measurements on—Part 2 —Profile Adjustment and Electrical Performance	20	Measurements on Goonhilly 85 ft Diameter Aerial—Part 2 —Profile Adjustment and Electrical Performance	20
GROVES, K., and MACKRILL, P. A Line-Transmission Simu- lator for Testing Data-Transmission Systems	117	Medium-Range Ship-to-Shore Radio Services, Develop- ments in	71
<b>H</b>			
HEATHER, J. M., and MARTIN-ROYLE, R. D. Remote Control and Supervisory Systems for Microwave Radio-Relay Links	169	Metal-Oxide-Semiconductor (MOS) Integrated Circuits— Part 2—Simple Logic Circuits	105
Highly Reliable Time-Pulse for Television Switching	8	Microwave Radio-Relay Links, Remote Control and Super- visory Systems for	169
HIX, K. W., and PYRAH, J. D. Call-Failure-Detection Equip- ment—Standard Equipment for Director and Non- Director Strowger Exchanges	152	MILLER, C. B., and MURRAY, W. J. Transit-Trunk-Network Signalling Systems—Part 1—Multi-Frequency Inter- Register Signalling	43
HODSOLL, A. G. The Echo Suppressor No. 7A	86	Part 2—Multi-Frequency Signalling Equipment	91
HOLLAND, G. E. V., and LANDER, A. C. A Highly Reliable Time-Pulse for Television Switching	8	Part 3—Line-Signalling Systems	159
HORSFIELD, B. R. Fast Signalling in the U.K. Telephone Network	242	MILLER, J. R., and GIPP, J. A. L. Recent Developments in F.D.M. Transistor Line Systems	234
HUGHES, C. J., and JONES, G. T. Programmable Logic—A New Approach to Standardization	227	Monitoring the Speed of Standby Engine-Generator Sets	157
HUNT, C. S. Stored-Program Character Storage for Auto- matic Error-Correcting Telegraph Systems	33	MOORE, R. A. The Testing of Broadband Radio-Relay Links	220
<b>I</b>			
Identification of New Cable Pairs	177	MORTON, W. D., and REYNOLDS, F. H. Metal-Oxide-Semi- conductor (MOS) Integrated Circuits—Part 2—Simple Logic Circuits	105
Improving Underground Maintenance Part 2—Proving a New Organization	11	Move of Letter Code-Sorting Installation	125
Integrated Circuits, Metal-Oxide-Semiconductor (MOS) Part 2—Simple Logic Circuits	105	MOXON, R. L., and BIRCHBY, G. A New Concrete Tower for Purdown Radio Station	138
Intelsat Global Satellite Communication System, The Devel- opment of the—Part 2—Current Earth-Station Practice and Future Systems	1	MURRAY, W. J., and MILLER, C. B. Transit-Trunk-Network Signalling Systems—Part 1—Multi-Frequency Inter- Register Signalling	43
Interfaces for Digital Data Transmission	113	Part 2—Multi-Frequency Signalling Equipment	91
<b>J</b>			
Jointing Coaxial Cables for Schools Closed-Circuit Tele- vision Networks	29	Part 3—Line-Signalling Systems	159
JONES, G. T., and HUGHES, C. J. Programmable Logic—A New Approach to Standardization	227	<b>N</b>	
de JONG, N. C. C. Progress in Postal Engineering, Part 1—A General Survey	65	New Approach to Standardization, Programmable Logic	227
Part 2—Packets and Parcels	131	New Duct for the Protection of Shore-Ends of Submarine Cables	218
Part 3—Letter Mail	203	New Generating Sets at Reading Trunk Exchange	57
<b>K</b>			
Key-and-Lamp Desk Unit, New 20-Line	232	New Generation of Auto-Manual Centres for London	212
KYME, R. C. Lives of Plant and Depreciation	96	New Method of Local Transmission Planning	84
<b>L</b>			
LAMB, W. H. The London Cable-Tube System	14	New 20-Line Key-and-Lamp Desk Unit	232
LANDER, A. C., and HOLLAND, G. E. V. A Highly Reliable Time-Pulse for Television Switching	8	<b>P</b>	
Land-Rover Mounted Winch	31	PEARSON, H. E. Gas Turbines for Telecommunications Power Plant	143
LAWRENCE, J. L. A. A New 20-Line Key-and-Lamp Desk Unit	232	PEARSON, H. E., and LOWE, B. A. Measurements on Goon- hilly 85 ft Diameter Aerial—Part 2—Profile Adjust- ment and Electrical Performance	20
Leads on Electrical Appliances, Testing the Safety of	51	Planning, A New Method of Local Transmission	84
Letter Code-Sorting Installation, Move of	125	Plant and Depreciation, Lives of	96
Lines Computer Project, Long	24	Postal Engineering, Progress in—Part 1—A General Survey	65
Line Systems, Recent Developments in F.D.M. Transistor..	234	Part 2—Packets and Parcels	131
Line-Transmission Simulator for Testing Data-Trans- mission Systems, A	117	Part 3—Letter Mail	203
Lives of Plant and Depreciation	96	Post Office Standard Video Transmission Equipment	147
Local Telephone Cable Design, Some Principles of	164	Post Office Technical Training College, The	77
Local Transmission Planning, A New Method of	84	Power Plant, Gas Turbines for Telecommunications	143
Logic—A New Approach to Standardization, Program- mable	227	Power Stations, Telecommunications in	38
London Bridge, Cabling on	125	Press Notices	60, 130, 198, 264
London Cable-Tube System	14	Programmable Logic—A New Approach to Standardization	227
London, New Generation of Auto-Manual Centres for	212	Progress in Postal Engineering—Part 1—A General Survey	65
London Television Outside Broadcasts, General Election 1970	196	Part 2—Packets and Parcels	131
Long Lines Computer Project	24	Part 3—Letter Mail	203
LOWE, B. A., and PEARSON, H. E. Measurements on Goon- hilly 85 ft Diameter Aerial—Part 2—Profile Adjust- ment and Electrical Performance	20	Purdown Radio Stations, A New Concrete Tower for	138
<b>M</b>			
MACKRILL, P., and GROVES, K. A Line-Transmission Simu- lator for Testing Data-Transmission Systems	117	PYRAH, J. D., and HIX, K. W. Call-Failure-Detection Equip- ment—Standard Equipment for Director and Non- Director Strowger Exchanges	152
Maintenance, Improving Underground—Part 2—Proving a New Organization	11	<b>R</b>	
Manhole, Flying	125	Radio-Relay Links, Remote Control and Supervisory Systems for Microwave	169
<b>N</b>			
		Radio-Relay Links, Testing of Broadband	220
		Radio Services, Developments in Medium-Range Ship-to- Shore	71
		Radio Station, A New Concrete Tower for Purdown	138
		Reading Trunk Exchange, New Generating Sets at	57
		Recent Developments in F.D.M. Transistor Line Systems..	234
		Regional Notes	57, 125, 195, 260
		Repair on a 1,400-pair Cable, Uni-Diameter	196
		Retubing of Hot-Water Boilers	57
		REYNOLDS, F. H., and MORTON, W. D. Metal-Oxide-Semi- conductor (MOS) Integrated Circuits—Part 2—Simple Logic Circuits	105
		RIDOUT, P. N., and ROLFE, P. Transmission Measurements of Connexions in the Switched Telephone Network	97

	PAGE NO.		PAGE NO.
ROLFE, P., and RIDOUT, P. N. Transmission Measurements of Connexions in the Switched Telephone Network ..	97	Television Outside Broadcasts, General Election 1970, London ..	196
<b>S</b>			
Safety of Leads on Electrical Appliances, Testing the ..	51	Television Switching, Highly Reliable Time-Pulse for ..	8
Satellite Communication Systems, The Development of the Intelsat Global—Part 2—Current Earth-Station Practice and Future Systems ..	1	Testing of Broadband Radio-Relay Links ..	220
SCOTT, W. L. Electrical Contacts in Telephone Exchanges; Contact Opening and Closing Phenomena and Quenching Techniques—Part 2—The Design of Contact Switching Circuits ..	179	Testing the Safety of Leads on Electrical Appliances ..	51
Schools Closed-Circuit Television Networks, Jointing Coaxial Cables for ..	29	THAIN, C. C., and WELLS, D. R. Improving Underground Maintenance—Part 2—Proving a New Organization ..	11
SELF, C. P. Jointing Coaxial Cables for Schools Closed-Circuit Television Networks ..	29	Time-Consistent Traffic Recording: Automatic Stop Facility ..	58
Semiconductor (MOS) Integrated Circuits, Metal-Oxide—Part 2—Simple Logic Circuits ..	105	Time-Pulse for Television Switching, Highly Reliable ..	8
Shore-Ends of Submarine Cables, New Duct for the Protection of ..	218	Tower for Purdown Radio Station, A New Concrete ..	138
Signalling in the U.K. Telephone Network, Fast ..	242	Traffic Recording: Automatic Stop Facility, Time-Consistent ..	58
Signalling Systems, Transit-Trunk-Network—Part 1—Multi-Frequency Inter-Register Signalling ..	43	Training College, The Post Office Technical ..	77
Part 2—Multi-Frequency Signalling Equipment ..	91	Transistor Line Systems, Recent Developments in F.D.M. ..	234
Part 3—Line-Signalling Systems ..	159	Transit-Trunk-Network Signalling Systems—Part 1—Multi-Frequency Inter-Register Signalling ..	43
Ship-to-Shore Radio Services, Developments in Medium-Range ..	71	Part 2—Multi-Frequency Signalling Equipment ..	91
Simulator for Testing Data-Transmission Systems, A Line-Transmission ..	117	Part 3—Line-Signalling Systems ..	159
SIXSMITH, J. Post Office Standard Video Transmission Equipment ..	147	Transmission Equipment, Post Office Standard Video ..	147
Sorting Installation, Move of Letter-Code ..	125	Transmission Measurements of Connexions in the Switched Telephone Network ..	97
Speed of Standby Engine-Generator Sets, Monitoring the ..	157	Transmission Planning, A New Method of Local ..	84
SPENCER, H. J. C. A New Method of Local Transmission Planning ..	84	TRUE, J. S. Monitoring the Speed of Standby Engine-Generator Sets ..	157
SPENCER, H. J. C. Some Principles of Local Telephone Cable Design ..	164	Trunk-Network Signalling Systems, Transit—Part 1—Multi-Frequency Inter-Register Signalling ..	43
Standardization, Programmable Logic—A New Approach to ..	227	Part 2—Multi-Frequency Signalling Equipment ..	91
Standby Engine-Generator Sets, Monitoring the Speed of ..	157	Part 3—Line-Signalling Systems ..	159
Stored-Program Character Storage for Automatic Error-Correcting Telegraph Systems ..	33	Tube System, London Cable ..	14
Submarine Cables, New Duct for the Protection of Shore-Ends of ..	218	Turbines for Telecommunications Power Plants, Gas ..	143
Supervisory Systems for Microwave Radio-Relay Links, Remote Control and ..	169	<b>U</b>	
<b>T</b>			
Technical Training College, The Post Office ..	77	U.K. Telephone Network, Fast Signalling in the ..	242
Telecommunications in Power Stations ..	38	Underground Maintenance, Improving—Part 2—Proving a New Organization ..	11
Telephone Cable Design, Some Principles of Local ..	164	Uni-Diameter Repair on a 1,400-pair Cable ..	196
Television Networks, Jointing Coaxial Cables for Schools Closed-Circuit ..	29	<b>V</b>	
		Video Transmission Equipment, Post Office Standard ..	147
		<b>W</b>	
		WALKER, A. F., and BARTLETT, G. A. Telecommunications in Power Stations ..	38
		WAY, V. G. W. Testing the Safety of Leads on Electrical Appliances ..	51
		WELLS, D. R., and THAIN, C. C. Improving Underground Maintenance—Part 2—Proving a New Organization ..	11
		Winch, A Land-Rover Mounted, ..	31
		Winter Hill Radio Station, Access to the ..	57
		WITHERS, D. J., and BACK, R. E. G. The Development of the Intelsat Global Satellite Communications System—Part 2—Current Earth-Station Practice and Future Systems ..	1

