

ELECTRICAL COMMUNICATION INDEX VOLUME 46 (1971)

Subject Index

	Number	Page
Aluminum Conductors for Polyethylene-Insulated Telephone Cables, K. I. Kincaid and D. K. Smith	1	72
Application of Computer Based Systems to Communications for News Dissemination and Handling, J. J. Sharp	4	271
Cable Technology:		
Aluminum Conductors for Polyethylene-Insulated Telephone Cables, K. I. Kincaid and D. K. Smith	1	72
Modern Trends in Communications-Cable Manufacture, D. C. Alexander	1	70
Optimal Design of Local Twin Telephone Cable with Paper Insulation, J. F. Blackwell and A. W. Gent	2	157
Common-Channel Signaling in the Metaonta System, Implementation of CCITT No 6, H. H. Adelaar, G. J. Le Strat, S. R. Treves, and E. P. G. Wright	2	100
Communication Network, Military Tactical, using Pulse-Code Modulation, A. Pirotte and P. Vitry	2	125
Communications:		
Editorial — The Metaonta Switching System, H. Nordsieck	4	233
Implementation of CCITT No 6 Common-Channel Signaling in the Metaonta System, H. H. Adelaar, G. J. Le Strat, S. R. Treves, and E. P. G. Wright	2	100
International Multiplex Equipments, L. C. Deschuytere, F. Scheible, S. Serdakowski, and K. H. Johansson	1	4
Metaonta L: Stored Program Control of Latching Crosspoint Matrices, S. Kobus, J. A. de Miguel, and A. Régnier	4	235
Military Tactical Communication Network using Pulse-Code Modulation, A. Pirotte and P. Vitry	2	125
Wide-Band Fiber-Waveguide Communication Systems for Optical Frequencies, M. Chown and K. C. Kao	2	118
Communication Systems, Wide-Band Fiber-Waveguide, for Optical Frequencies, M. Chown and K. C. Kao	2	118
Computer Aids to Network Planning: Placement of Telephone Exchanges in Urban Areas, M. Enriquez de Salamanca and J. Zulueta	3	196
Computer Applications:		
Application of Computer Based Systems to Communications for News Dissemination and Handling, J. J. Sharp	4	271
Computer Aids to Network Planning: Placement of Telephone Exchanges in Urban Areas, M. Enriquez de Salamanca and J. Zulueta	3	196
Computer Assisted Development of a Fundamental Plan for San Juan, Lester A. Gimpelson	3	207
Computer Technology in Telephony, L. A. Gimpelson	3	179
Computer Testing of Exchanges During Installation, J. Cordero Badorrey and F. Vidondo Morras	3	191
ITT 3200 Computer for Real-Time Data Processing, G. Yelloz, T. Cagnac, A. P. Le Gall, and C. J. Fruchard	1	60
National Trunking Network Optimization, P. A. Caballero Gallego	3	202
Present Methods for the Investigation of Traffic Properties in Telecommunications Networks, A. Rodriguez Rodriguez and J. E. Villar de Villacian	3	182
Real-Time Environment Simulation, B. Fontaine	3	188
Traffic Model for Simulation of Entire Exchanges, G. Dietrich	2	114
Computer Assisted Development of a Fundamental Plan for San Juan, Lester A. Gimpelson	3	207
Computer Based Systems, Application of, to Communications for News Dissemination and Handling, J. J. Sharp	4	271
Computer, ITT 3200, for Real-Time Data Processing, G. Yelloz, T. Cagnac, A. P. Le Gall, and C. J. Fruchard	1	60
Computer Technology in Telephony, Lester A. Gimpelson	3	179
Computer Testing of Exchanges During Installation, J. Cordero Badorrey and F. Vidondo Morras	3	191
Data Processing, ITT 3200 Computer for Real-Time, G. Yelloz, T. Cagnac, A. P. Le Gall, and C. J. Fruchard	1	60
Data Transmission, Techniques for High-Speed, over Voice Channels, J. T. L. Sharpe	1	24
Doppler Scanning Guidance System, C. W. Earp, F. G. Overbury, and P. Sothcott	4	253
Editorial — The Metaonta Switching System, H. Nordsieck	4	233
Environment Simulation, Real-Time, B. Fontaine	3	188
Exchange, Pulse Code Modulation Tandem, Field Trial Model, D. J. Rose	4	246
Exchanges, Computer Aids to Network Planning: Placement of Telephone, in Urban Areas, M. Enriquez de Salamanca and J. Zulueta	3	196

	Number	Page
Exchanges, Computer Testing of, During Installation, J. Cordero Badorrey and F. Vidondo Morras	3	191
Exchanges, Traffic Model for Simulation of Entire, G. Dietrich	2	114
Factors in Telecommunications, Fifth International Symposium on, Human, E. P. G. Wright ... Fiber-Waveguide, Wide-Band, Communication Systems for Optical Frequencies, M. Chown and K. C. Kao	1	68
Fifth International Symposium on Human Factors in Telecommunications, E. P. G. Wright ... Frequency-Modulation Broadcast Transmitters, Very-High-Frequency, for the Band 87.5 to 108 Megahertz, J. Irmer and G. Müller	2	118
Guidance System, Doppler Scanning, C. W. Earp, F. G. Overbury, and P. Sothcott	4	253
Human Factors, Fifth International Symposium on, in Telecommunications, E. P. G. Wright ...	1	68
Installation, Computer Testing of Exchanges During, J. Cordero Badorrey and F. Vidondo Morras	3	191
International Multiplex Equipments, L. C. Deschuytere, F. Scheible, S. Serdakowski, and K. H. Johansson	1	4
Introduction, South East Asia Radio Links: R. N. Burton	1	41
Investigation of Traffic Properties, Present Methods for the, in Telecommunications Networks, A. Rodriguez Rodriguez and J. E. Villar de Villacian	3	182
ITT Telephone Dial HP 5, C. Ciborra	1	56
ITT 3200 Computer for Real-Time Data Processing, G. Yelloz, T. Cagnac, A. P. Le Gall, and C. J. Fruchard	1	60
Latching Crosspoint Matrices, Metaconta L: Stored Program Control of, S. Kobus, J. A. de Miguel, and A. Régnier	4	235
Long-Distance Radio-Relay Systems for Thailand, South East Asia Radio Links: G. Lupke	1	51
Malaysia Main Line, South East Asia Radio Links:, R. H. Gorringe	1	43
Metaconta L: Stored Program Control of Latching Crosspoint Matrices, S. Kobus, J. A. de Miguel, and A. Régnier	4	235
Metaconta Switching System, Editorial —, H. Nordsieck	4	233
Metaconta System, Implementation of CCITT No 6 Common-Channel Signaling in the, H. H. Adelaar, G. J. Le Strat, S. R. Treves, and E. P. G. Wright	2	100
Military Tactical Communication Network using Pulse-Code Modulation, A. Pirotte and P. Vitry	2	125
Modern Trends in Communications-Cable Manufacture, D. C. Alexander	1	70
Monopulse Tracking Receiver, B. J. Blau, D. H. Keilen, and A. T. Mayle	2	161
Multi-Channel Radio-Relay Equipment for 150- and 450-Megahertz Bands, South East Asia Radio Links:, L. G. Thomas	1	46
Multiplex Equipments, International, L. C. Deschuytere, F. Scheible, S. Serdakowski, and K. H. Johansson	1	4
Network Optimization, National Trunking, P. A. Caballero Gallego	3	202
Network Planning: Computer Aids to, Placement of Telephone Exchanges in Urban Areas, M. Enriquez de Salamanca and J. Zulueta	3	196
News Dissemination and Handling, Application of Computer Based Systems to Communications for, J. J. Sharp	4	271
Optical Frequencies, Wide-Band Fiber-Waveguide Communication Systems for, M. Chown and K. C. Kao	2	118
Optimal Design of Local Twin Telephone Cable with Paper Insulation, J. F. Blackwell and A. W. Gent	2	157
Paper Insulation, Optimal Design of Local Twin Telephone Cable with, J. F. Blackwell and A. W. Gent	2	157
Polyethylene-Insulated Telephone Cables, Aluminum Conductors for, K. I. Kincaid and D. K. Smith	1	72
Pulse-Code Modulation, Military Tactical Communication Network using, A. Pirotte and P. Vitry	2	125
Pulse Code Modulation Tandem Exchange Field Trial Model, D. J. Rose	4	246
RACINE Concept for Radar: Principles and Experimental Model, H. Bosc and J. M. Colin .. Radar: RACINE Concept for Radar: Principles and Experimental Model, H. Bosc and J. M. Colin	4	277
Radio Links, South East Asia: Introduction, R. N. Burton	1	41
Long-Distance Radio-Relay Systems for Thailand, G. Lupke	1	51
Malaysia Main Line, R. H. Gorringe	1	43
Multi-Channel Radio-Relay Equipment for 150- and 450-Megahertz Bands, L. G. Thomas	1	46

	Number	Page
Real-Time Data Processing, ITT 3200 Computer for, G. Yelloz, T. Cagnac, A. P. Le Gall, and C. J. Fruchard	1	60
Real-Time Environment Simulation, B. Fontaine	3	188
Simulation of Entire Exchanges, Traffic Model for, G. Dietrich	2	114
Simulation, Real-Time Environment, B. Fontaine	3	188
South East Asia Radio Links see Radio Links, South East Asia		
Stored Program Control, Metaconta L: of Latching Crosspoint Matrices, S. Kobus, J. A. de Miguel, and A. Régnier	4	235
Submerged-Repeater System, 1840-Channel, A. J. Bennett and G. A. Heath	2	139
Switching System, Editorial — The Metaconta, H. Nordsieck	4	233
Symposium, Fifth International, on Human Factors in Telecommunications, E. P. G. Wright ..	1	68
Tactical Communication Network, Military, using Pulse-Code Modulation, A. Pirotte and P. Vitry	2	125
Tandem Exchange, Pulse Code Modulation, Field Trial Model, D. J. Rose	4	246
Techniques for High-Speed Data Transmission over Voice Channels, J. T. L. Sharpe	1	24
Telephone Cable, Optimal Design of Local, with Paper Insulation, J. F. Blackwell and A. W. Gent	2	157
Telephone Cables, Aluminum Conductors for Polyethylene-Insulated, K. I. Kincaid and D. K. Smith	1	72
Telephone Dial HP 5, ITT, C. Ciborra	1	56
Telephone Exchanges, Computer Aids to Network Planning: Placement of, in Urban Areas, M. Enriquez de Salamanca and J. Zulueta	3	196
Telephony, Computer Technology in, Lester A. Gimpelson	3	179
Testing of Exchanges, Computer, During Installation, J. Cordero Badorrey and F. Vidondo Morras	3	191
Tracking Receiver, Monopulse, B. J. Blau, D. H. Keilen, and A. T. Mayle	2	161
Traffic Model for Simulation of Entire Exchanges, G. Dietrich	2	114
Traffic Properties, Present Methods for the Investigation of, in Telecommunications Networks, A. Rodriguez Rodriguez and J. E. Villar de Villacian	3	182
Traffic Sources, Lost-Call-Cleared Systems with Unbalanced, J. P. Dartois	1	32
Transmitters, Very-High-Frequency Frequency-Modulation Broadcast, (for the Band 87.5 to 108 Megahertz,) J. Irmer and G. Müller	2	131
Trunking Network, National, Optimization, P. A. Caballero Gallego	3	202
Twin Telephone Cable, Optimal Design of, with Paper Insulation, J. F. Blackwell and A. W. Gent	2	157
Unbalanced Traffic Sources, Lost-Call-Cleared Systems with, J. P. Dartois	1	32
Very-High-Frequency Frequency-Modulation Broadcast Transmitters for the Band 87.5 to 108 Megahertz, J. Irmer and G. Müller	2	131
1840-Channel Submerged-Repeater System, A. J. Bennett and G. A. Heath	2	139

ELECTRICAL COMMUNICATION VOLUME 46 (1971)

Author Index

	Number	Page
Adelaar, H. H., Implementation of CCITT No 6 Common-Channel Signaling in the Metaconta System	2	100
Alexander, D. C., Modern Trends in Communications-Cable Manufacture	1	70
Bennett, A. J., 1840-Channel Submerged-Repeater System	2	139
Blackwell, J. F., Optimal Design of Local Twin Telephone Cable with Paper Insulation	2	157
Blau, B. J., Monopulse Tracking Receiver	2	161
Bosc, H., RACINE Concept for Radar: Principles and Experimental Model	4	277
Burton, R. N., South East Asia Radio Links: Introduction	1	41
Caballero Gallego, P. A., National Trunking Network Optimization	3	202
Cagnac, T., ITT 3200 Computer for Real-Time Data Processing	1	60
Chown, M., Wide-Band Fiber-Waveguide Communications Systems for Optical Frequencies	2	118
Ciborra, C., ITT Telephone Dial HP 5	1	56
Colin, J. M., RACINE Concept for Radar: Principles and Experimental Model	4	277
Cordero Badorrey, J., Computer Testing of Exchanges During Installation	3	191
Dartois, J. P., Lost-Call-Cleared Systems with Unbalanced Traffic Sources	1	32
de Miguel, J. A., Metaconta L: Stored Program Control of Latching Crosspoint Matrices	4	235
Deschuytere, L. C., International Multiplex Equipments	1	4
Dietrich, G., Traffic Model for Simulation of Entire Exchanges	2	114
Earp, C. W., Doppler Scanning Guidance System	4	253
Enriquez de Salamanca, M., Computer Aids to Network Planning: Placement of Telephone Exchanges in Urban Areas	3	196
Fontaine, B., Real-Time Environment Simulation	3	188
Fruchard, C. J., ITT 3200 Computer for Real-Time Data Processing	1	60
Gent, A. W., Optimal Design of Local Twin Telephone Cable with Paper Insulation	2	157
Gimpelson, L. A., Computer Technology in Telephony	3	179
Gimpelson, L. A., Computer Assisted Development of a Fundamental Plan for San Juan	3	207
Gorrige, R. H., South East Asia Radio Links: Malaysia Main Line	1	43
Heath, G. A., 1840-Channel Submerged-Repeater System	2	139
Irmer, J., Very-High-Frequency Frequency-Modulation Broadcast Transmitters for the Band 87.5 to 108 Megahertz	2	131
Johansson, K. H., International Multiplex Equipments	1	4
Kao, K. C., Wide-Band Fiber-Waveguide Communication Systems for Optical Frequencies	2	118
Keilen, D. H., Monopulse Tracking Receiver	2	161
Kincaid, K. I., Aluminum Conductors for Polyethylene-Insulated Telephone Cables	1	72
Kobus, S., Metaconta L: Stored Program Control of Latching Crosspoint Matrices	4	235
Le Gall, A. P., ITT 3200 Computer for Real-Time Data Processing	1	60
Le Strat, G. J., Implementation of CCITT No 6 Common-Channel Signaling in the Metaconta System	2	100
Lupke, G., South East Asia Radio Links: Long-Distance Radio-Relay Systems for Thailand	1	51
Mayle, A. T., Monopulse Tracking Receiver	2	161
Müller, G., Very-High-Frequency Frequency-Modulation Broadcast Transmitters for the Band 87.5 to 108 Megahertz	2	131
Nordsiedeck, H., Editorial — The Metaconta Switching System	4	233
Overbury, F. G., Doppler Scanning Guidance System	4	253
Pirotte, A., Military Tactical Communication Network using Pulse-Code Modulation	2	125
Régnier, A., Metaconta L: Stored Program Control of Latching Crosspoint Matrices	4	235
Rodriguez Rodriguez, A., Present Methods for the Investigation of Traffic Properties in Telecommunications Networks	3	182
Rose, D. J., Pulse Code Modulation Tandem Exchange Field Trial Model	4	246
Scheible, F., International Multiplex Equipments	1	4
Serdakowski, S., International Multiplex Equipments	1	4
Sharp, J. J., Application of Computer Based Systems to Communications for News Dissemination and Handling	4	271
Sharpe, J. T. L., Techniques for High-Speed Data Transmission over Voice Channels	1	24
Smith, D. K., Aluminum Conductors for Polyethylene-Insulated Telephone Cables	1	72
Sothcott, P., Doppler Scanning Guidance System	4	253
Thomas, L. G., South East Asia Radio Links: Multi Channel-Radio-Relay Equipment for 150- and 450-Megahertz Bands	1	46
Treves, S. R., Implementation of CCITT No 6 Common-Channel Signaling in the Metaconta System	2	100
Vidondo Morras, F., Computer Testing of Exchanges During Installation	3	191
Villar de Villacian, J. E., Present Methods for the Investigation of Traffic Properties in Telecommunications Networks	3	182
Vitry, P., Military Tactical Communication Network using Pulse-Code Modulation	2	125

	Number	Page
Wright, E. P. G., Fifth International Symposium on Human Factors in Telecommunications	1	68
Wright, E. P. G., Implementation of CCITT No 6 Common-Channel Signaling in the Metaconta System	2	100
Yelloz, G., ITT 3200 Computer for Real-Time Data Processing	1	60
Zulueta, J., Computer Aids to Network Planning: Placement of Telephone Exchanges in Urban Areas	3	196

ELECTRICAL COMMUNICATION VOLUME 46 (1971)

Research and Development Notes

	Number	Page
Control Unit for Data Transmission Modem	3	219
Corona and Flash-Over Protection on High-Voltage Underground Cable Terminations	1	80
Cryptel 245 Electronic Teleprinter Scrambler	2	167
Frequency Division Multiplex Equipment	4	283
Impatt Diode Microwave Oscillator	3	221
Integrated FM/IF Amplifier and Demodulator TBA 120	3	221
Inverter System for East Berlin	1	82
Laser Space Communications System	2	169
Miniature Delay Line	4	285
Minimat 60 Private Automatic Branch Exchange	2	167
New Antenna for VOR-S Navigation System	1	81
New Antenna Testing Range	3	220
Optical-Fiber Communications — An Important Milestone Passed	1	80
Repeater Housing for Coaxial Cable Systems	2	168
SOJ/SOX Line Filters	3	220
Solar Probe	1	81
Solid State L-Band Amplifiers	4	284
Solid State Radar System Demonstrated	3	219
Solid State Traffic Control System	4	284
TBA 470 Gate for Electronic Organs	4	284
Telecommunications Symposium	1	82
Temperature Compensated Crystal Oscillators	4	283
Thermistor Breakthrough Extends Range to 1000 degrees Celsius	4	285
Xenon Lamps	1	82

ELECTRICAL COMMUNICATION VOLUME 46 (1971)

Recent Achievements

	Number	Page
Alaskan Communications Contract Renewed	1	90
Audio Oscillators GTA-30 A and B	3	224
Australian Post Office Adopts Metaconta 10 C Switching System	4	289
Automatic Radio Direction Finder	3	226
Automatic Toll Exchange 4 in Zurich	1	88
Band III Television Transmitters for the Netherlands	3	222
Belgian Contract for Microwave Network in Taiwan	3	226
Centralized Traffic Control for Railways	1	90
Color Signal Generator MF 04	1	83
Communications Control Center	2	171
Consol Beacons Aid Navigation	4	289
Contract for a 1840 Circuit UK-Canada Telephone Cable Awarded to ITT	3	225
Conveyor System for Swedish Hospital	2	170
Data Terminal LO 380 for Air Traffic Control	3	229
Deep Sea VHF Radiotelephone STR 65	2	171
DS.4 Message Switching Systems Ordered	4	289
Earth Station for Satellite Telecommunications	3	225
Eight Languages for International Labor Bureau	3	226
Electronic Exchanges for British Post Office	1	89
EOLE Meteorological Satellite Launched	4	286
Extensions to Step by Step Exchanges	4	286
Federal Minister Inaugurates Automatic Mail Handling System	4	287
Field Trial of CCITT No 6 Signaling System	4	287
First Doppler Instrument Landing System Delivered	4	286
First Low-Cost Satellite Navigator in British Vessels	3	222
First Message-Switching System DS.4	2	171
First Push-button PABX in Belgium	3	226
First Quasi-Electronic Emergency Call System in West Germany	3	222
First Transatlantic Cable to South America	3	223
Further Post Office Automation in South Africa	2	173
Government Minister Visit ITT's French Associates	4	288
High-Capacity Submarine Cable System Links Florida and the Bahamas	3	224
IF Switching Equipment for Radio Relay Network in Sweden	3	225
Integrated Circuit for Car Revolution Counters	3	227
Integrated Power Oscillator TAA 775	1	90
Integrated Precision Voltage Regulator MIC 723	1	85
International Control Centers for Leicester and Glasgow	4	287
ITT at Telecom 71	3	228
King Baudouin Visits Telecommunications Plant at Geel	4	286
Large Coaxial Cable for Norwegian Television	1	83
Large Orders for Teleprinters LO 133	3	226
Leopard Battle-Tank Simulators	2	170
Madrid-Zaragoza 12-Megahertz Coaxial-Cable System	2	171
Major Orders for Private Automatic Branch Exchange	2	170
Marine Radiotelephones for Smaller Vessels	1	84
Mechanization of Lettersorting Centers in Mexico	1	85
Metaconta L Switching System	4	289
Metaconta 10C Telex Exchange for Bergen	2	171
Metaconta 10C Toll Exchange for Australia	1	90
Mini-Card Reader KKL 300 for Data Transmission	1	84
Mobile Radiotelephone Finds Widespread Applications	1	85
Model 444 Teleprinter	1	91
More Electronic Exchanges for British Post Office	4	287
New Exchanges in Pentaconta Switching Technique	2	171
New Metaconta 10C Exports	3	223
New PABX System for London Hospitals	4	286
New Pentaconta Telephone Exchanges	3	224
New Range of Simplex Loudspeaker Intercom Systems	3	227
PABX's to Improve Newspaper Communications	1	89
Pentaconta Crossbar Exchanges for British Post Office	4	286
Pentaconta Exchanges Cut-Over	4	286
Pentaconta System Developments	1	86
Pentaconta Exchanges for Iran	4	286
Pentaconta Telephone Exchange Extended in Ecuador	1	85
Pentaconta Telephone Switching Equipment for Venezuela	1	91
Pentaconta Telex Exchanges for Spain	1	83

	Number	Page
Pentomat 200-Line Crossbar PABX Introduced	3	222
Postal Mechanization Equipment in Canada	3	224
Power Distribution Racks for Transmission Plants	1	86
Public Address Systems for English Cathedrals	3	226
Radio Equipment for Container Ships	1	86
Radio System for Oil Installation	1	85
Return to Railway Signaling Activity	3	223
Routing Facilities in the Vienna-Börseplatz Transit Exchange Rationalize International Subscriber Dialing	4	288
Satellite-Communications Ground Station in Congo	1	88
Shipboard Communication Systems Ordered	4	288
Simultaneous Auction Sales	4	286
Star Equipment Finds Many Uses	3	227
Star Radiotelephone for Communication Service	2	173
STL Scientist Meets Queen Elizabeth	3	229
Submarine Cables from Italy to Egypt and Algeria	3	223
Submarine Cable to Link Egypt and Italy	1	89
Submarine Telephone Cable for Virgin Islands	1	89
Supergroup Translating Equipment 60/300	1	86
Telemetry Receiving Station for Brazil	1	88
Telephone Information Center in Moscow	1	83
Television and Very-High-Frequency-Radio Broadcast Transmitters for Austria	1	83
Type MF 11 Color Television Monitors for the Netherlands	3	227
Transit Center for the Ivory Coast	4	287
World Bank Finances ITT Electronics for Yugoslavia	4	288
WT 1000 Voice-Frequency Telegraph System	1	90
100th VHF Television Transmitter	2	173
160 Circuit Submarine Cable to Link Lisbon and Madeira	4	288