

Contributors to This Issue

Allen H. Cherin, B.E.E., 1961, City College of New York; M.S.E.E., 1965, University of Vermont; Ph.D. (E.E.), 1971, University of Pennsylvania; Bell Laboratories, 1965—. Mr. Cherin is engaged in studies associated with the characterization, splicing, and packaging of optical fibers. Member, IEEE, OSA.

Fan R. K. Chung, B.S., 1966, National Taiwan University; Ph.D., 1974, University of Pennsylvania; Bell Laboratories, 1974—. Mrs. Chung's current interests include combinatorics, graph theory, and the analysis of algorithms. She is presently investigating various problems in the theory of switching networks.

Daniel P. Heyman, B.Mgt.E., 1960, Rensselaer Polytechnic Institute; M.I.E., 1962, Syracuse University; Ph.D. (Operations Research), 1966, University of California at Berkeley; U.S. Air Force Logistics Command, 1960-63; Bell Laboratories, 1966—. Mr. Heyman has worked in various areas of operations research including queuing theory, economic modeling, and inventory theory. Member, ORSA, TIMS, Sigma Xi, Alpha Pi Mu.

Nuggehally S. Jayant, B.Sc., 1962, University of Mysore (India); B.E. (Distinction), 1965, and Ph.D., 1970, Indian Institute of Science, Bangalore; Research Associate, Stanford Electronics Laboratories, 1967-68; Visiting Scientist, Indian Institute of Science, January-March, 1972 and August-October, 1975; Bell Laboratories, 1968—. Mr. Jayant has worked on digital communication in the presence of burst-noise, on the detection of fading signals, on pattern discrimination problems, and on adaptive quantizers for waveform encoding.

Dietrich Marcuse, Diplom Vorpruefung, 1952, Dipl. Phys., 1954, Berlin Free University; D.E.E., 1962, Technische Hochschule, Karlsruhe, Germany; Siemens and Halske (Germany), 1954-1957; Bell Laboratories, 1957—. At Siemens and Halske, Mr. Marcuse was engaged in transmission research and studying coaxial cable and circular waveguide transmission. At Bell Laboratories, he has been engaged in studies of circular electric waveguides and work on gaseous masers. He spent one year (1966-1967) on leave of absence from Bell Laboratories at the University of Utah. He is presently working on the transmission

aspect of a light communications system. Mr. Marcuse is the author of three books. Fellow, IEEE; member, Optical Society of America.

Calvin M. Miller, B.S.E.E., 1963, North Carolina State University, M.S.E., 1966, Akron University; Bell Laboratories 1967—. Mr. Miller has developed equipment and methods for transmission line characterization. His present interests are in the area of fiber optics as a practical transmission medium. Member, Eta Kappa Nu, OSA.

Elizabeth J. Murphy, B.S. (Math.), 1964, Spring Hill College; M.S. (Math.), 1966, Auburn University; Bell Laboratories, 1967—. Ms. Murphy has worked on computation and numerical analysis associated with the characterization of transmission lines and optical fibers. Member, ACM.

Peter Noll, Dipl.-Ing. (Electrical Engineering), 1964, Dr.-Ing. (Electrical Engineering), 1969, and *venia legendi*, 1974, Technical University of Berlin, Germany. Mr. Noll has been with the Heinrich-Hertz-Institut, Berlin, Germany, since 1964. He was involved in the development of electronic telephone exchanges and worked on problems of switching and routing of broadband signals. Since 1970, he has been engaged in research on adaptive speech encoding and on communication theory. He has also taught courses in digital signal processing and data reduction at the Technical University of Berlin. He was at Bell Laboratories during the summers of 1974 and 1975 on leave from the Heinrich-Hertz-Institut, Berlin. Member, Nachrichtentechnische Gesellschaft, (NTG), Germany.