## Contributors to This Issue

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William G. French, B.A., 1965, University of California, Riverside; Ph.D., 1969, University of Wisconsin; Bell Laboratories, 1969–1979; The 3M Company, 1979. While at Bell Laboratories, Mr. French worked on fundamental studies of glass as well as glass purification techniques and the development of low loss optical fiber materials. He was also concerned with vapor deposition methods for the fabrication of low loss fibers with low dispersion characteristics. Member, Optical Society of America, American Chemical Society, and American Ceramic Society.

Richard W. Hatch, B.S. (Electrical Engineering), 1952, Northeastern University; M.S. (Mathematics) 1958, Stevens Institute of Technology; Bell Laboratories, 1952—. Mr. Hatch worked for several years on the design of microwave radio relay systems and in 1961 and 1962 supervised groups working on the ground transmitter, systems analysis, and communications tests for the Telstar satellite. In 1962, he became head of a department engaged in transmission systems engineering studies of network performance and maintenance. He currently heads a department responsible for studies of customer opinion and network

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Harry Heffes, B.E.E., 1962, City College of New York; M.E.E., 1964, and Ph.D., 1968, New York University; Bell Laboratories, 1962—. Mr. Heffes has previously worked in the areas of control and filtering theory. More recently, he has been concerned with modeling and analysis of teletraffic systems. He is currently Adjunct Associate Professor of Electrical Engineering and Computer Science at Stevens Institute of Technology. Member, Tau Beta Pi, Eta Kappa Nu, American Men of Science, ORSA.

William J. Infosino, B.A. (Mathematics), 1969, Queens College; M.S. (Operations Research), 1972, New York University; Bell Laboratories, 1972—. Mr. Infosino has worked on the implementation of measured service for local telephone calls. He has studied the demand for local calls, related that demand to socioeconomic variables, and modeled customer choices and revenues when several billing options are offered. Member, Phi Beta Kappa.

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Wanda L. Mammel, A.B. (Mathematics), 1943, Winthrop College; M.Sc. (Applied Mathematics), 1945, Brown University; Bell Laboratories, 1956—. Ms. Mammel is engaged in finding mathematical methods for the numerical solution of a variety of problems. In particular, she has applied linear programming techniques to problems of crystal plasticity. At present she is working on problems in microwave propagation and optical waveguides.

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James L. Neigh, B.S. (Electrical Engineering), 1973, University of Pittsburgh; M.Eng. (E.E.), 1974, Cornell University; Bell Laboratories, 1973—. Mr. Neigh has participated in several studies related to transmission planning for the introduction of digital technology in the local network. He currently has responsibility for digital transmission, synchronization, and signaling requirements in the Customer Switching Systems Area.

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