

Contributors to This Issue

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Francis J. Brophy, B.S. (Mathematics), 1968, St. Joseph's College; M.S. (Mathematics), 1971, Stevens Institute of Technology; Bell Laboratories, 1968—. Mr. Brophy has been involved with software simulation of various data transmission techniques and most recently with the design of digital filters.

James T. Clemens, B.S. (Physics), 1965, Ph.D. (Physics), 1970, Polytechnic Institute of New York; Bell Laboratories, 1969—. Mr. Clemens has worked on MOS integrated-circuit development and in the characterization and development of the ($\text{Al}_2\text{O}_3/\text{SiO}_2$) mos technology. He is currently supervisor of a Si-Gate mos technology development group responsible for mos integrated-circuit memory technology.

James W. Gewartowski, B.S., 1952, Illinois Institute of Technology; S.M., 1953, Massachusetts Institute of Technology; Ph.D., 1958, Stanford University; Bell Laboratories, 1957—. Mr. Gewartowski was initially concerned with the development of high-power microwave tubes and electron guns. From 1962 to 1971, he supervised a group studying varactor harmonic generators and upconverters and circuit properties of IMPATT diodes. Since 1971, he has supervised the group developing IMPATT amplifiers for radio relay systems. Member, IEEE, Tau Beta Pi, Eta Kappa Nu, Sigma Xi. Recipient, 1960 IEEE Browder J. Thompson Memorial Prize.

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James McKenna, B.Sc. (Mathematics), 1951, Massachusetts Institute of Technology; Ph.D. (Mathematics), 1961, Princeton University; Bell Laboratories, 1960—. Mr. McKenna has done research in quantum mechanics, electromagnetic theory, and statistical mechanics. He has recently been engaged in the study of nonlinear partial differential equations that arise in solid-state device work and in the theory of stochastic differential equations.

James E. Morris, Bell Laboratories, 1959—. Mr. Morris' early work was in the design and development of microwave strip-line circuits for military applications. Since 1968, he has been engaged in studies of IMPATT devices and their application as amplifiers in radio-relay equipment. Member, IEEE.

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N. L. Schryer, B.S., 1965, M.S., 1966, and Ph.D., 1969, University of Michigan; Bell Laboratories, 1969—. Mr. Schryer has worked on the numerical solution of parabolic and elliptic partial differential equations. He is currently studying problems of this type that arise in semiconductor device theory.

