

## Contributors to This Issue

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**James Flanagan**, Sc.D. Electrical Engineering, 1955, Massachusetts Institute of Technology; Bell Laboratories, 1957—. Mr. Flanagan has worked in voice communications, acoustics, and digital techniques for signal coding and transmission. He is Head of the Acoustics Research Department. Fellow, IEEE; fellow and currently vice president, Acoustical Society of America; member Sigma Xi and Tau Beta Pi.

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**Joseph S. Kaufman**, B.E.E., 1965, Pratt Institute; M.S.E.E., 1966 and Ph.D., 1970 (computer, information, and control engineering), University of Michigan; Assistant Professor of Electrical Engineering and Computer Science, Columbia University 1971–1973; Bell Laboratories, 1973—. Since joining Bell Laboratories, Mr. Kaufman has been concerned with the modeling and analysis of telephone traffic systems. Member FAS, IEEE.

**A. J. Wahl**, B.S., 1942, University of Kansas; Ph.D., 1950, Princeton University; United States Air Force, 1951–1953; Bell Laboratories, 1950–1951, 1953—. Since 1953, Mr. Wahl has been engaged in various phases of transistor development. His early work was in the area of surface effects relating to device behavior, particularly in regard to device reliability. Later he was concerned with providing the semiconductor devices for the Telstar satellites and has since supervised the provision of transistors and diodes for submarine cable systems. He is currently supervisor of a group concerned with the development of microwave transistors and submarine cable devices. Member, IEEE, Sigma Xi.