

Contributors to This Issue

Dan L. Bisbee, B.S., 1965, Monmouth College; Bell Laboratories, 1955—. Mr. Bisbee has been involved in the measurement of optical transmission losses in bulk glass and optical fibers. He is presently engaged in developing techniques for splicing cables made up of optical fiber waveguides.

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Richard W. Daniels, B.S., 1964, Brown University; M.S., 1965, Massachusetts Institute of Technology; Ph.D., 1969, Northeastern University; Bell Laboratories, 1964—. Mr. Daniels has worked on various facets of filter design, including exploratory work on active filters and design of crystal filters. Currently, he is assigned to Tennessee State University on the Aid to Black Colleges Program. Author, *Approximation Methods for Electronic Filter Design*. Member, IEEE, Tau Beta Pi, Sigma Xi.

Robert J. Dow, B.S. (Physics), 1959, University of Massachusetts; M.S. (Communication Theory), 1961, Northeastern University; Bell Laboratories, 1959—. Mr. Dow has been involved in the design and development of thin film components. His current work includes the evaluation of laser machining for thin and thick film applications.

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Robert A. Friedenson, B.E.E., 1965, M.S., 1966, and Ph.D., 1969, Cornell University; Bell Laboratories, 1969—. Mr. Friedenson was engaged in the design and development of RC active filters for PCM channel banks. In 1971 he was appointed supervisor of a group responsible for computer aids to circuit design and testing. His current interests include computer aids to digital system simulation, PCM repeater design, and analog and digital circuit simulation and testing. Member, IEEE, Eta Kappa Nu, Tau Beta Pi.

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Otto Herrmann, Dipl.-Ing (Electrical Engineering), 1956, and Dr.-Ing. (Electrical Engineering), 1965, University of Aachen, Germany; *venia legendi*, 1971, University of Erlangen, Nuremberg, Germany. Mr. Herrmann has worked on problems concerning approximation theory as applied to analog and digital filter design. From 1959 to 1971 he was a Teaching and Research Assistant at the University of Aachen, University of Karlsruhe, and University of Erlangen. He was at Bell Laboratories during the summer of 1972 on leave from the Technical Faculty at the University of Erlangen. Presently, he teaches courses in communications, analog computation, and digital signal processing at the University of Erlangen. Member, Nachrichtentechnische Gesellschaft.

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Patricia H. McDonald, B.A. (Mathematics), 1963, Trinity College, Washington, D. C.; M.A.T., 1964, University of Massachusetts; Bell Laboratories, 1964—. Mrs. McDonald has developed computer programs for general purpose optimization, tolerance analysis applications, switched network analysis, and simulation of digital systems. She has recently been involved with the design of an interactive filter synthesis program.

Lawrence R. Rabiner, S.B., S.M., 1964, Ph.D., 1967, Massachusetts Institute of Technology; Bell Laboratories, 1962—. Mr. Rabiner has worked on digital circuitry, military communications problems, and problems in binaural hearing. Presently, he is engaged in research on speech communications and digital signal processing techniques. Coauthor, *Theory and Application of Digital Signal Processing*. Member, Eta Kappa Nu, Sigma Xi, Tau Beta Pi; Fellow, Acoustical Society of America; President, IEEE G-ASSP Ad Com; member, G-ASSP Technical Committee on Digital Signal Processing, G-ASSP Technical Committee on Speech Communication, IEEE Proceedings Editorial Board, Technical Committee on Speech Communication of the Acoustical Society; former Associate Editor of the G-ASSP Transactions.

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James Tow, B.S. (E.E.), 1960, M.S. (E.E.), 1962, and Ph.D. (E.E.), 1966, University of California, Berkeley; Bell Laboratories, 1966—. Mr. Tow is a member of the Network Analysis and Synthesis Department. His present interests include computer-aided network analysis and design, active filter realization, and microprocessor applications. Member, IEEE, Eta Kappa Nu, Phi Beta Kappa.

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