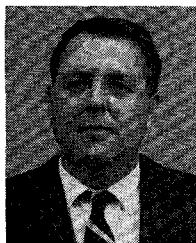


Contributors



James E. Adair (M'67) was born in Farmington, Ky., on January 18, 1935. He received the B.S., M.S., and Ph.D. degrees from the University of Michigan, Ann Arbor, in 1961, 1963, and 1968, respectively.

From 1953 to 1957, he served as an Electronics Technician in the U. S. Navy. From 1962 to 1967, he was with the Electron Physics Laboratory at the University of Michigan, where he worked in research on backward-wave oscillators, space-charge waves on nonuniform beams, millimeter traveling-wave masers, and coupled-mode analysis of nonuniform coupled transmission lines. Since 1967, he has been an Assistant Professor of Electrical Engineering at the University of Missouri at Rolla.

Dr. Adair is a member of Eta Kappa Nu, Tau Beta Pi, Phi Kappa Phi, and Sigma Xi.

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Seymour B. Cohn (S'41 - A'44 - M'46 - SM'51-F'59) was born in Stamford, Conn., on October 21, 1920. He received the B.E. degree in electrical engineering from Yale University, New Haven, Conn., in 1942, the M.S. degree in communication engineering in 1946, and the Ph.D. degree in engineering sciences and applied physics in 1948, both from Harvard University, Cambridge, Mass.

From 1942 to 1945 he was employed as a Special Research Associate by the Radio Research Laboratory of Harvard University, and also represented that laboratory as a Technical Observer with the U. S. Air Force. From 1948 to 1953 he was with Sperry Gyroscope Company, Great Neck, N. Y., where he held the position of Research Engineer in the Microwave Instruments and Components Department. From 1953 to 1960 he was with the Stanford Research Institute, Menlo Park, Calif., as Head of the Microwave Group and from 1957 as Manager of the Electromagnetics Laboratory. In 1960 he joined Rantec Division, Emerson Electric Company, Calabasas, Calif., as Vice President and Technical Director. Since October, 1967, he has been an independent Consultant to Rantec, Stanford Research Institute, and other clients.

Dr. Cohn is a member of Tau Beta Pi and Sigma Xi. He is a member and ex-chairman of the G-MTT Administrative Committee, and was the recipient of the G-MTT 1964 Microwave Prize. He is also an Associate Editor of the *Microwave Journal*.

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Robert B. Green was born in Des Moines, Iowa, on July 15, 1936. He received the B.S. degree in electrical engineering from Iowa State University, Ames, in 1958, and the M.S. and Ph.D. degrees in electrical engineering from Ohio State University, Columbus, in 1959 and 1963, respectively.



John W. Adams was born in Birmingham, Ala., on March 14, 1932. He received the B.E.E. degree from Georgia Institute of Technology, Atlanta, in 1954, and the M.S.E.E. degree from North Carolina State University, Raleigh, in 1963.

He served in the U. S. Army Signal Corps working on microwave communications until 1957. He was then with Western Electric Company, Winston-Salem, N. C., until 1960. He was a Teaching Assistant for two years and an Instructor for two years in electrical engineering at North Carolina State University. Since 1964 he has been with the Microwave Circuit Standards Section of the National Bureau of Standards, Boulder, Colo., where he has been working on millimeter-wave power measurement techniques.

Mr. Adams is a member of Eta Kappa Nu and Sigma Xi.

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From 1958 to 1962, he was associated with the Antenna Laboratory (now Electro Sciences Lab) of the Electrical Engineering Department of Ohio State University, where he was engaged in work pertaining to radar scattering problems, and from 1962 to 1964, he was an instructor in the department. He is currently an Assistant Professor of Electrical Engineering at the University of California, Davis.

Dr. Green is a member of Pi Mu Epsilon, Eta Kappa Nu, Tau Beta Pi, Phi Kappa Phi, and Sigma Xi.

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George I. Haddad (S'57 - M'61 - SM'66) was born in Aindara, Lebanon, on April 7, 1935. He received the B.S.E., M.S.E., and Ph.D. degrees in electrical engineering in 1956, 1958, and 1963, respectively, from the University of Michigan, Ann Arbor.

From 1957 to 1958 he was associated with the Engineering Research Institute of the University of Michigan, where he was engaged in research on electromagnetic accelerators. In 1958 he joined the Electron Physics Laboratory, where he has been engaged in research on masers, parametric amplifiers, detectors, electron-beam devices, and microwave solid-state devices. He held a University of Michigan Research Institute Fellowship for the academic year of 1958-1959, and a sponsored research fellowship for the spring semester of 1959-1960. He served successively as Instructor, Assistant Professor, and Associate Professor in the Electrical Engineering Department from 1960 to 1969. He is presently a Professor and Director of the Electron Physics Laboratory.

Dr. Haddad is a member of Eta Kappa Nu, Sigma Xi, Phi Kappa Phi, and the American Physical Society.

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Stephen Jarvis, Jr. was born in Orange, N. J., on September 8, 1925. He received the B.A. degree in physics, the M.A. degree in mathematics, and the Ph.D. degree in applied mathematics from Columbia University, New York, N. Y., in 1949, 1950, and 1961, respectively.

From 1951 to 1961 he was a mathematician at the U. S. Army Frankford Arsenal, Philadelphia, Pa., except for a two-year leave



Paul C. Chestnut was born in La Grange, Ill., on July 25, 1938. He received the A.B. degree in mathematics in 1960 from the University of Notre Dame, Notre Dame, Ind., and the M.S. degree in mathematics in 1964 from Stanford University.

of absence in 1953-55 when he was a Research Assistant at Case Institute of Technology, Cleveland, Ohio. During these years he worked on problems in interior ballistics and viscous flow. Since 1961 he has been a mathematician at the National Bureau of Standards, Boulder, Colo., where he has worked in fluid dynamics, plasma physics, and electromagnetic theory.

Dr. Jarvis is a member of SIAM and Sigma Xi.



Head of the Microwave Laboratory in 1950, and Assistant Manager of the Transmission Laboratory in 1962. He won the Microwave Prize for a paper on singular integral equations applied to waveguides, also in 1962. In 1967 he was

awarded an honorary degree of Doctor of Science from the University of Colorado, Boulder, where he is currently Professor of Electrical Engineering. He is the author of many papers and patents in the field of antennas and waveguides, as well as author of three research books.

Mr. Lewin is a member of the Institution of Electrical Engineers (London) and a fellow of the British Interplanetary Society.



A. Kent Johnson (M'60) was born in Pocatello, Idaho, on June 23, 1935. He received the B.E.S. degree from Brigham Young University, Provo, Utah, in 1960, the M.E.E. degree from New York University, New York, in

1962, and the Sc.D. degree from Stevens Institute of Technology, Hoboken, N. J., in 1966.

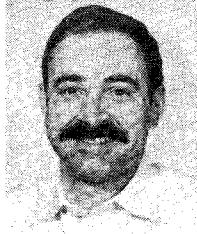
Since 1960 he has been a member of the Technical Staff of the Bell Telephone Laboratories, Inc., Whippany, N. J., where he is currently involved in research on microwave filters and coupled transmission line networks. He has also conducted research in cryogenic electronics.

Dr. Johnson is a member of Sigma Xi.

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Leonard Lewin was born in Southend-on-Sea, England, in 1919. He matriculated from Southend High School in 1935.

During World War II, he was with the British Admiralty, doing research on antenna design, waveguides, and radar. In 1946, he joined Standard Telecommunication Laboratories, Harlow, England, where he became



from the Polytechnic Institute of Brooklyn, N. Y., in 1964, and the E.E. degree from Stanford University, Stanford, Calif., in 1968.

From 1960 to 1964 he was on the engineering staff of the Cosmotron Division at Brookhaven National Laboratory, N. Y., where he



George I. Zysman (S'57-M'59) was born in Radom, Poland, on February 3, 1935. He received the B.E.E. degree from Cooper Union, New York, N. Y., in 1959, and the M.S.E.E. and Ph.D. degrees in electrophysics from the Polytechnic Institute of Brooklyn, New York, in 1962 and 1966, respectively.

From 1959 to 1960 he was employed by Hazeltine Corporation, Little Neck, N. Y., where he worked on circuit development for IFF radars. From 1960 to 1962 he was a Research Fellow at the Microwave Research Institute, Brooklyn, where he worked on problems in distributed parameter networks. From 1962 to 1966 he was a Senior Graduate Assistant and Instructor in the Electrophysics Department of the Polytechnic Institute of Brooklyn, where he was engaged in research in the areas of network synthesis and microwave network theory. Since 1966 he has been a member of the Technical Staff of Bell Telephone Laboratories, Inc., Whippany, N. J., working on problems in microwave circuits and components, and phased array antennas.

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