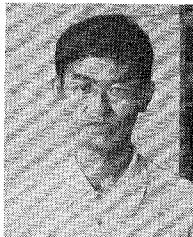


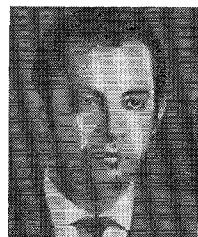
## Contributors



**Yoshinao Aoki** (M'66) was born in Nagano Prefecture, Japan, on September 2, 1941. He received the B.E. and M.E. degrees from Hokkaido University, Sapporo, Japan, in 1964 and 1966, respectively.

Since 1967 he has been an Assistant Professor in the Department of Electronic Engineering, Hokkaido University, where he has been engaged in research on electromagnetic wave theory, gas lens, optical transmission, acoustical and microwave holographies, and computer optics. From 1969 to 1971 he was on leave from Hokkaido University as a Post-Doctoral Fellow at the Department of Physics, Laval University, Quebec, Que., Canada.

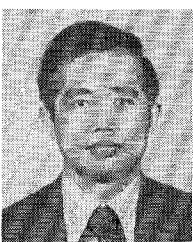
Mr. Aoki is a member of the Institute of Electronics and Communication Engineers of Japan, the Japan Society of Applied Physics, and the Optical Society of America.



**Abdel-Moniem A. El-Sherbiny** (M'68) was born in Damanhour, Egypt, on March 26, 1939. He received the B.Sc. degree in electrical engineering from Cairo University, Cairo, Egypt, in June 1960, and the Ph.D. degree in physical-mathematical sciences from Leningrad State University, Leningrad, U.S.S.R., in November 1967.

While at Leningrad State University he studied periodic electromagnetic structures. Since that time he has been a Lecturer in the Department of Electrical Engineering, Ein-Shams University, Cairo, Egypt. His current research interests are in the field of periodic structures and waveguide propagation.

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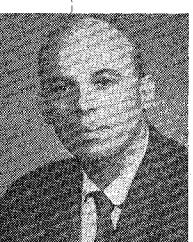


**Chao-Chun Chen** (M'70) was born in Taiwan, China, on January 10, 1935. He received the B.S. degree from National Taiwan University, Taipei, Taiwan, in 1958, and the M.S. and Ph.D. degrees from the University of Michigan, Ann Arbor, in 1964 and 1968, respectively, all in electrical engineering.

From 1959 to 1960 he served as an Electronic Officer in the Chinese Air Force. From 1960 to 1963 he was a Plant Engineer at Taiwan Cement Corporation. From 1965 to 1968 he was a Research Assistant at the Radiation Laboratory of the University of Michigan, where he was engaged in antenna research. In 1969 he joined Hughes Aircraft Company, Culver City, Calif. Currently he works at Hughes Ground Systems, Fullerton, Calif., where he is involved primarily with research in phase-scanned antennas, diffraction, and propagation of electromagnetic waves.

Dr. Chen is a member of Sigma Xi.

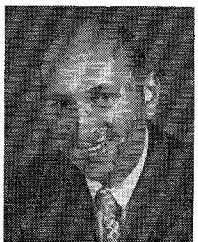
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**Leonard D. Cohen** (S'48-A'50-M'58) was born in Brooklyn, N. Y., on September 22, 1927. He received the B.E.E. degree, cum laude, from the College of the City of New York, N. Y., in 1949, and the M.S.E.E. degree from the Polytechnic Institute of Brooklyn, Brooklyn, N. Y., in 1967.

Since 1949, he has been a Member of the Technical Staff of the General Telephone and Electronics Laboratories and its predecessor, Sylvania Electric Products. His work has been in the fields of plant and equipment design, television picture tubes, microwave tubes, microwave solid-state devices and materials, and communication systems. He is presently working with magnetic bubble memory devices.

Mr. Cohen is a member of Eta Kappa Nu and is a Registered Professional Engineer in the State of New York.



**Dominic A. Fleri** was born in Brooklyn, N. Y., on November 8, 1931. He received the B.S. degree in physics from the Polytechnic Institute of Brooklyn, Brooklyn, N. Y., in 1953, and the M.S. degree in physics from New York University, New York, in 1958.

From 1953 to 1959, he was employed by Sperry Gyroscope Co., Great Neck, N. Y., where he worked on microwave ferrite devices. He joined RCA, Surface Communications Laboratory, New York, N. Y., in 1959, where he worked on parametric and tunnel-diode amplifiers. From 1962 to 1972, he was engaged in research on solid-state devices and circuits at General Telephone and Electronics Laboratories, Bayside, N. Y. He is presently a Consultant in the Department of Advanced Receiver Components and Subsystems at AIL, a division of Cutler-Hammer, Melville, N. Y.

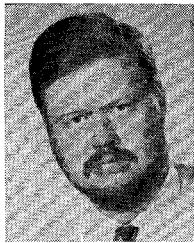
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**William J. Getsinger** (S'48-A'50-M'55-SM'69) was born in Waterbury, Conn., on January 24, 1924. He received the B.S. degree from the University of Connecticut, Storrs, in 1949, and the M.S. degree and the degree of Engineer from Stanford University, Stanford, Calif., in 1959 and 1961, all in electrical engineering.

Since 1950 he has worked in the field of microwave components at Technicraft Laboratories, the Westinghouse Electric Company, Stanford Research Institute, and the M.I.T. Lincoln Laboratory. In 1969 he joined COMSAT Laboratories, Clarksburg, Md., where he is now Head of the Microwave Circuits Department.

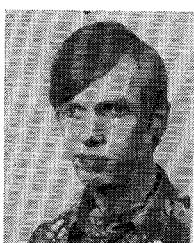
Mr. Getsinger was Guest Editor of the IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES Special Issue on Computer-Oriented Microwave Practices, August 1969. He is a member of the G-MTT Technical Committee on Computer-Oriented Microwave Practices.



**Lennart Gustafsson** was born in Gothenberg, Sweden, in 1940. He received the civilingenjör (M.Sc.) degree in electrical engineering from Chalmers University of Technology, Gothenberg, Sweden in 1966.

Since 1966 he has been working at Chalmers University of Technology, first at the Institute for Theoretical Electricity, and since 1971 at the Division of Network Theory, where he is currently engaged in research on fundamental and subharmonic injection locking of microwave oscillators.

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**G. H. Bertil Hansson** was born in Vänersborg, Sweden, on December 12, 1945. He received the M.S. degree in electrical engineering in 1970 from Chalmers University of Technology, Gothenburg, Sweden.

Since 1970 he has been a Member of the research and teaching staff of the Research Laboratory of Electronics. His research interests are in the area of microwave semiconductor devices.

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**K. Ingemar Lundström** (S'66-M'68) was born in Skellefteå, Sweden, on May 9, 1941. He received the M.S. degree in electrical engineering in 1967 and the Ph.D. degree in 1970 from Chalmers University of Technology, Gothenburg, Sweden.

Since 1967 he has been a Member of the research and teaching staff of the Research Laboratory of Electronics, where in 1969, he was appointed Assistant Professor. His research interests are primarily in the areas of semiconductor device physics and biophysics.

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**C. K. Mok** was born in Singapore, on December 27, 1940. He received the B.Sc.(Eng.) and M.Sc.(Eng.) degrees, both from the University of London, London, England, in 1964 and 1965, respectively.

In 1965 he joined Standard Telecommunication Laboratories Ltd., Harlow, England, and for two years worked on noise in solid-state devices and linear amplifiers. Since then he has been mainly concerned with research and development in the evanescent-mode

medium, and has conducted studies on satellite transponders. He is currently a Senior Research Engineer.

Mr. Mok is a member of the Institute of Electrical Engineers.

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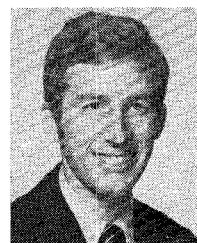


**Keinosuke Nagai** was born in Gunma, Japan, on February 10, 1942. He received the B.E. degree from Waseda University, Tokyo, Japan, in 1965, and the M.E. degree in electronics from Hokkaido University, Sapporo, Japan, in 1970.

From 1965 to 1967 he was an Engineer with Sony Co., Tokyo, Japan. He is currently with the Department of Electronic Engineering, Hokkaido University, where he is engaged in research on microwave holography.

Mr. Nagai is a member of the Institute of Electronics and Communication Engineers of Japan.

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**Dean F. Peterson** (S'67-M'67-S'70-M'71) was born in Melbourne Beach, Fla., on March 28, 1945. He received the B.S. degree in electrical engineering from Utah State University, Logan, in 1967, and the M.S. and Ph.D. degrees from Massachusetts Institute of Technology, Cambridge, in 1969 and 1971, respectively.

From 1968 to 1971 he was a Research Assistant in the Solid-State Microwave Electronics Group, Research Laboratory of Electronics, M.I.T., where he was engaged in the characterization and modeling of avalanche diodes for use in microwave amplifiers and oscillators. Since 1971 he has been a Staff Member at M.I.T. Lincoln Laboratory where he is developing millimeter-wave IMPATT diode amplifiers for communications systems.

Dr. Peterson is a member of Sigma Xi.

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**Donald H. Steinbrecher** (M'60) was born in Eustis, Fla., on July 1, 1936. He received the B.S.E.E. degree with high honors from the University of Florida, Gainesville, in 1960, and the S.M. and Ph.D. degrees from Massachusetts Institute of Technology, Cambridge, in 1963 and 1966, respectively.

From 1960 to 1961 he was with Electronics Communications, Inc., St. Petersburg, Fla., where he worked on the development of ultrahighfrequency receivers. Since 1962 he has been a Staff Member of the Research Laboratory of Electronics, Cambridge, Mass., and at present is Associate Professor of Electrical Engineering at M.I.T. His work in solid-state microwave electronics has been devoted to developing fundamental performance limits for

diodes in various applications and circuits realizing near-optimum performance at high-microwave frequencies.

Dr. Steinbrecher is a member of the American Association for the Advancement of Science, Sigma Xi, and Sigma Tau.

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**Michio Suzuki** (SM'57) was born in Sapporo, Japan, on November 14, 1923. He received the B.E. degree and Doctor of Engineering degree, both from Hokkaido University, Sapporo, Japan, in 1946 and 1960, respectively.



From 1948 to 1962 he was an Assistant Professor, and from 1962, Professor of Electronic Engineering at Hokkaido University. From 1956 to 1957 he was a Research Associate at the Microwave Research Institute of Polytechnic Institute of Brooklyn, Brooklyn, N. Y.

Dr. Suzuki is a member of the Institute of Electronics and Communication Engineers of Japan and the Institute of Electrical Engineers of Japan.