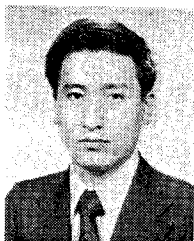


## Contributors



**Tatsuo Itoh** (S'69-M'69-SM'74) was born in Tokyo, Japan, on May 5, 1940. He received the B.S. and M.S. degrees in electrical engineering from the Yokohama National University, Yokohama, Japan, in 1964 and 1966, respectively, and the Ph.D. degree in electrical engineering from the University of Illinois, Urbana, in 1969.

Since September 1966 he has been with the Electromagnetics Laboratory, University of Illinois, where he is now a Research Assistant Professor. During 1972-1973, he was appointed as a Fellow of the Center for Advanced Study, University of Illinois. His research has been on electromagnetic theory, microwave techniques, optical communication, numerical techniques, etc.

Dr. Itoh is a member of the Institute of Electronics and Communication Engineers of Japan and of Sigma Xi, and is an associate member of Commission VI of the International Scientific Radio Union.



**Motohisa Kanda** was born in Kanagawa, Japan, on September 10, 1943. He received the B.S. degree from Keio University, Tokyo, Japan, in 1966, and the M.S. and Ph.D. degrees, both in electrical engineering, from the University of Colorado, Boulder, in 1968 and 1971, respectively.

From 1965 to 1966 he did research on the avalanche breakdown in germanium p-n junction at cryogenic temperature at Keio University. From 1966 to 1971 he was a

Research Assistant at the University of Colorado, where he was engaged in the research on impact ionization of impurities in n-type germanium, and nonreciprocal behavior in solid-state magnetoplasmas at millimeter and submillimeter wavelengths. In 1971 he joined the staff of the Institute for Basic Standards, Electromagnetics Division, National Bureau of Standards, Boulder, Colo., where he is presently engaged in developing systems and techniques for use in microwave noise measurements, especially at millimeter wavelengths.



**Kiyohiro Kawasaki**, for a photograph and biography, please see page 477 of the April 1974 issue of this TRANSACTIONS.



**L. J. Peter Linnér** (S'68-M'74) was born in Växjö, Sweden, on April 4, 1945. He received the M.Sc. and Ph.D. degrees in electrical engineering from Chalmers University of Technology, Gothenburg, Sweden, in 1969 and 1974, respectively.

Since 1969 he has been a Teaching Assistant in mathematics and telecommunications at Chalmers University of Technology. In 1973 he became a Member of the research and teaching staff of the Division of Network

Theory at the same university with research interests in network theory, microwave engineering, and computer-aided design methods. In 1974 he joined the MI-Division, Telefonaktiebolaget LM Ericsson, Mölndal, Sweden, where he is engaged in radar systems design.



**William G. May** (S'58-M'65) was born in St. Louis, Mo., on December 30, 1937. He received the B.S. and M.S. degrees in electrical engineering in 1960 and the Ph.D. degree in 1964, all from the Massachusetts Institute of Technology, Cambridge.

From 1957 to 1960 he was in the cooperative program at M.I.T., taking industrial assignments with Bell Laboratories, N. J., and Brush E. E. Co., Loughborough, England. From 1964 to 1966 he held a Ford Postdoctoral Fellowship and was an Assistant Professor in Electrical Engineering at M.I.T. Since 1966 he has been on the electrical engineering faculty of the University of Colorado, Boulder, where he is now an Associate Professor, with research interests in semiconductor devices for use with millimeter waves and far infrared and semiconductors as catalysts.



**Katsunari Okamoto** was born in Hiroshima City, Japan, on October 19, 1949. He received the B.S. and M.S. degrees in electrical engineering, both from the University of Tokyo, in 1972 and 1974, respectively.

At present, he is studying toward the Ph.D. degree in the Graduate School of the University of Tokyo, specializing in light-beam transmission and integrated optical circuitry.

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

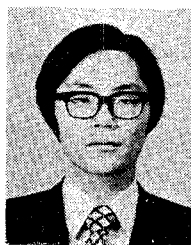


**Takanori Okoshi** (S'56-M'60) was born in Tokyo, Japan, on September 16, 1932. He received the B.S., M.S., and Ph.D. degrees, all in electrical engineering from the University of Tokyo, Tokyo, Japan, in 1955, 1957, and 1960, respectively.

In 1960, he was appointed an Instructor, and in 1961, became an Associate Professor, in the Department of Electronic Engineering, University of Tokyo, where he worked primarily in the field of microwave circuits,

microwave measurements, and microwave electron devices. From 1963 through 1964, on leave of absence from the University of Tokyo, he joined Bell Laboratories, Inc., Murray Hill, N.J., where he was engaged in research on electron guns. He returned to the University of Tokyo in 1964, and since then he has been working again in the microwave field, specializing in solid-state microwave oscillators, microwave planar (two-dimensional) circuits, and collectors for beam-type tubes. In 1971 he joined the Technical University of Munich, Munich, Germany, on a temporary basis as a Guest Professor. Since 1968 he has also been engaged in the research of three-dimensional imaging, and most recently, of optical waveguides.

Dr. Okoshi is an Associate Editor of the Transactions of the Institute of Electronics and Communication Engineers of Japan, of the Journal of the Institute of Electrical Engineers of Japan, and of the IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES.



**Hirotaka Takagi** was born in Nagoya, Japan, on November 13, 1950. He is currently a Graduate Student in the Department of Electronics at Nagoya University, Nagoya, Japan.

Mr. Takagi is an associate member of the Institute of Electronics and Communication Engineers of Japan.



**Masayoshi Umeno (M'72)**, for a photograph and biography, please see page 479 of the April 1974 issue of this TRANSACTIONS.

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