

Contributors



Kiyomichi Araki was born in Nagasaki, Japan, on January 7, 1949. He received the B.S. degree in electrical engineering from Saitama University, Urawa, Japan, in 1971, and the M.S. degree in electronics engineering from the Tokyo Institute of Technology, Tokyo, Japan, in 1973.

He was briefly employed at the Tokyo Institute of Technology as a Research Assistant. He is currently a Doctoral Student at the Tokyo Institute of Technology and his research has been concerned with microwave circuit elements.

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



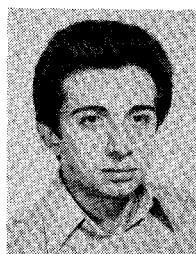
Rudolf Deutsch was born in Brasov, Romania, in 1931. He studied chemistry at the University of Cluj, Cluj, Romania from 1950 to 1954. In 1962 he received the Ph.D. degree in theoretical physics from the Lomonosov University of Moscow, Moscow, USSR.

From 1954 to 1959 he was a teacher at a secondary school and a Research Assistant at the University of Cluj, Cluj, Romania. From 1962 to 1973 he was a Reader in physics at the Polytechnical Institute at Iasi, Romania. From 1973 to 1977 he did research work for a brewery of Innsbruck, Innsbruck, Austria. In 1975 he became a Reader in physics at the University of Innsbruck, Innsbruck, Austria.



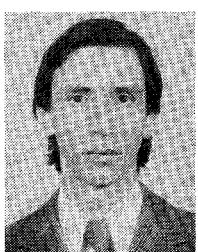
David T. Auckland (S'78) was born in Seattle, WA, on June 21, 1949. He received the B.S. degree in electrical engineering from the University of Washington, Seattle, in June 1971. In 1974 he entered the Graduate School at Syracuse University, Syracuse, New York, and received the M.S. degree in electrical engineering in 1976.

He spent three years in the U.S. Army at Aberdeen Proving Ground, MD, developing test procedures for various types of mine detectors and electro-optical equipment. He is presently a doctoral candidate and is engaged in research developing numerical solutions to electromagnetic field problems.



Guglielmo D'Inzeo was born in Milan, Italy, on January 26, 1952. He graduated in electrical engineering from the University of Rome in 1975.

He is currently a Research Associate at the Institute of Electronics, University of Rome, under a C.N.R. fellowship working in the microwave integrated circuits area.



René R. Bonetti was born in São Paulo, Brazil, in December 1948. He received the B.S. in electrical engineering from Escola de Engenharia Mauá, I.M.T., São Paulo, in 1971, and the M.Sc. from the Institute of Space Research (INPE), São José dos Campos, in 1974.

He is now working toward a Ph.D. degree at the Technological Institute of Aeronautics (ITA), São José dos Campos, Brasil. Since 1972 he has been with INPE where he is involved in the development of microwave integrated circuits, ferrite devices, and low-cost microwave receivers.



Franco Giannini was born in Galatina, Lecce, Italy, on November 9, 1944. He received the degree in electronic engineering from the University of Rome in 1968.

In 1968 he joined the Institute of Electronics, University of Rome, where he has been Assistant Professor since 1970. He was also "professore incaricato" of microwaves at the University of Ancona from 1973 to 1974 and of solid state electronics at the University of Rome from 1974 to 1977. Presently he is professore incaricato of Applied Electronics at the University

of Rome. He has been working on problems concerning active and passive microwave components and electromagnetic interaction with biological tissues.



Ferdinand Cap was born in 1924 near Vienna, Austria. He studied physics, mathematics, and chemistry from 1942-1946 at the University of Vienna, Vienna, Austria.

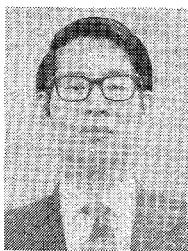
He became a Lecturer at the University of Innsbruck, Innsbruck, Austria, in 1949 after a stay at the Zürich Technical University. He was promoted to Assistant Professor in 1955, Associate Professor with tenure in 1957, and Full Professor in 1960. In 1967 he was Guest Professor for plasma physics in New York. In 1971 he became a Senior Research Associate of NASA at Goddard Space Center. For 10 years he was Austria's Scientific Representative at the UN in New York. He has published more than 100 papers in physics and several textbooks about nuclear reactors and plasma physics.



Roger F. Harrington (S'48-A'53-M'57-SM'62-F'68) was born in Buffalo, NY, on December 24, 1925. He received the B.E.E. and M.E.E. degrees from Syracuse University, Syracuse, NY, in 1948 and 1950, respectively, and the Ph.D. degree from Ohio State University, Columbus, in 1952.

From 1945 to 1946 he served as an Instructor at the U.S. Naval Radio Material School, Dearborn, MI, and from 1948 to 1950 he was employed as an Instructor and Research Assistant at Syracuse University. While studying at Ohio State University, he served as a Research Fellow in the Antenna Laboratory. Since 1952 he has been on the faculty of Syracuse University, where he is presently Professor of Electrical Engineering. During 1959-1960 he was Visiting Associate Professor at the University of Illinois, Urbana, in 1964 he was Visiting Professor at the University of California, Berkeley, and in 1969 he was Guest Professor at the Technical University of Denmark, Lyngby, Denmark.

Dr. Harrington is a member of Tau Beta Pi, Sigma Xi, and the American Association of University Professors.



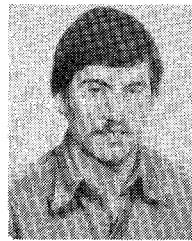
Kiyohiko Itoh (M'71) was born in Sapporo, Japan, on May 15, 1939. He received the B.S.E.E. degree in 1963, the M.S. degree in 1965, and Ph.D. degree in 1973, from Hokkaido University, Sapporo, Japan.

Since 1965 he has been on the Faculty of Engineering at Hokkaido University, where he is an Associate Professor of Electronic Engineering. During 1970-1971, he was with the Department of Electrical and Computer Engineering, Syracuse University, Syracuse, NY, as a Research Associate, on leave from Hokkaido University. His special interests are in electromagnetic radiation, waveguide studies, wave optics, and mobile radio communications.

Dr. Itoh is a member of the Institute of Electronics and Communication Engineering of Japan, where he is one of reviewers of papers.

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Dr. Naito received an Inada Award in 1961 and a Treatise Award in 1966 from the Institute of Electronics and Communication Engineers of Japan. He is a member of the Institute of Electronics and Communication Engineers of Japan and the Japan Society of Applied Physics.



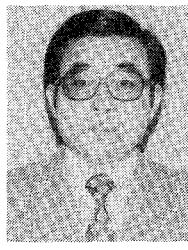
David B. Seidel (M'77) was born in Flagstaff, AZ, on November 26, 1951. He received his B.S., M.S., and Ph.D. degrees in Electrical Engineering in 1973, 1974, and 1977, respectively, all from the University of Arizona, Tucson.

From 1973 to 1977 he was a Research Associate at the University of Arizona. Since July of 1977 he has been a Visiting Fellow with the Cooperative Institute for Research in Environmental Sciences. His research activities have included work in guided waves, EMP

simulation, and antenna and scattering problems.

Dr. Seidel is a member of Tau Beta Pi.

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Masanori Kobayashi was born in Niigata, Japan, on June 17, 1947. He received the B.S. and M.S. degrees in electrical engineering, both from the University of Ibaraki, Ibaraki, Japan, in 1970 and 1972, respectively.

His research interests are concerned with Green's function for anisotropic electrostatic field problems and analyses of microstrip lines and electrooptic light modulator lines.

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

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Cesare M. Sodi was born in Pietraligure, Savona, Italy, on March 1952. He graduated in electrical engineering from the University of Rome in 1976.

After graduation he joined the Institute of Electronics of the University of Rome, where he currently is working in the microwave area.

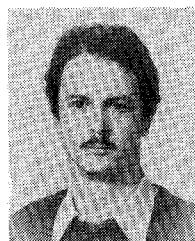
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Tadashi Matsumoto was born in Hokkaido, Japan, on June 3, 1915. He received the B.E. degree in electrical engineering and the Ph.D. degree from the University of Hokkaido, Sapporo, Japan, in 1938 and 1952, respectively.

From 1938 to 1941, he served as an Official of Engineer Rank in Japanese Government Ministry of Communication. In 1941, he joined the staff of the Department of Electrical Engineering, Hokkaido University. Since 1951, he has been a Professor in the Department of Electronic Engineering of the same University. From 1954 to 1955, he was a Visiting Professor of Cornell University. His major interests are in microwave circuits, antenna, laser transmission, and transmission of informations.

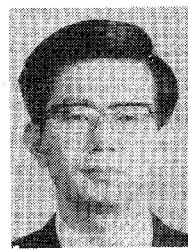
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Roberto Sorrentino (M'77) was born in Rome, Italy, on December 27, 1947. He graduated in electrical engineering from the University of Rome in 1971.

Upon completion of his studies he joined the Institute of Electronics, University of Rome, where he has been Assistant Professor since 1974. He was also "professore incaricato" of Microwaves at the University of Catania from 1975 to 1976 and of Ancona from 1976 to 1977. He is presently professore incaricato of solid state electronics at the University of Rome. His research activities have been concerned with electromagnetic wave propagation in anisotropic media, electromagnetic interaction with biological tissues, and microwave integrated circuits.

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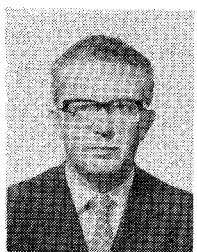
Yoshiyuki Naito (M'70-SM'74) was born in Oita, Japan, on November 22, 1936. He received the B.S. degree in electrical engineering and the D. Eng. degree, both from the Tokyo Institute of Technology Tokyo, Japan, in 1959 and 1964, respectively.

Since 1964 he has been with the Tokyo Institute of Technology. From September 1965 to October 1966 he was a Postdoctoral Fellow at the Polytechnic Institute of Brooklyn, Brooklyn, NY. Currently, he is an Associate Professor with the Faculty of Engineering. His research has chiefly been concerned with microwave circuit elements, and properties and applications of magnetic material and antennas.



Kohichi Tatekura was born in Hokkaido, Japan, on April 27, 1952. He received the B.S. and M.S. degrees in electronic engineering, both from the University of Hokkaido, Sapporo, Japan, in 1975 and 1977, respectively. At present, he is studying toward the Ph.D. degree in the Graduate School of the University of Hokkaido, specializing in optical waveguides.

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



Plinio Tissi was born in Belluno, Italy, on June 14, 1931. He received the B.S. degree in mechanical and electrical engineering from São Paulo University, Brazil, in 1956 and the M.S. and Ph.D. degrees in electrophysics from the Polytechnic Institute of Brooklyn, Brooklyn, NY, in 1965 and 1967, respectively.

He was a member of the Electronics Department of the Technological Institute of Aeronautics (ITA), São José dos Campos, Brazil, from 1957 to 1962 and from 1968 to 1971. Since 1971 he has been with the Institute of Space Research, São José dos Campos. His activities include research and teaching in the fields of network synthesis, microwave networks design, and space telecommunications.

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James R. Wait (SM'56-F'62) received the B.A.Sc., M.A.Sc., and Ph.D degrees from the University of Toronto, Toronto, Ont., Canada, in 1948, 1949, and 1951, respectively.

After spending some time geophysically prospecting in Arizona, he turned seriously to electromagnetics in 1952 at the Radio Physics Laboratory in Ottawa. In 1955 he succumbed to an offer from the National Bureau of Standards, and since then has been with the Boulder Laboratories of the U.S. Department of Commerce. His principal affiliation is now with the National Oceanic and Atmospheric Administration, but he is also a Fellow of the Cooperative

Institute for Research in Environmental Sciences, University of Colorado, Boulder, as well as a Professor Adjoint in the Electrical Engineering Department of the University. In addition, he acts as Consultant to the Office of Telecommunications.

In 1977 Dr. Wait was elected to the U.S. National Academy of Engineering. Also, in June 1977, he was elected to be a Fellow of the Institution of Electrical Engineers (IEE).

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Johnson J. H. Wang (M'68) was born in Hunan, China, on October 24, 1938. He received the B.S. degree in electrical engineering from National Taiwan University in 1962, the M.S. degree in engineering science from Florida State University, Tallahassee, in 1965, and the Ph.D. degree from the Ohio State University, Columbus, in electrical engineering in 1968.

From 1964 to 1965 he was a Teaching Assistant at Florida State University, Tallahassee.

From 1965 to 1968 he was a Research Assistant, and later Research Associate, at the Electroscience Laboratory (formerly Antenna Laboratory) of the Ohio State University, Columbus. From 1968 to 1975 he worked consecutively at Frequency Engineering Laboratory, TRW Systems, Motorola, and Texas Instruments, engaged in a variety of engineering activities in antenna, radome, and microwave devices. Since 1975 he has been a Senior Research Engineer at the Engineering Experiment Station of Georgia Institute of Technology, Atlanta. His research interests include electromagnetic theory, numerical analysis, antenna, radome, and the interaction of electromagnetic radiation with biological bodies.

Dr. Wang is a member of Sigma Xi.