

# Contributors



**Kai Chang** (S'75) was born in Canton, China, on April 27, 1948. He received the B.S.E.E. degree from National Taiwan University, Taipei, Taiwan, and the M.S. degree from State University of New York at Stony Brook, Stony Brook, NY, in 1970 and 1972, respectively.

From 1970 to 1971 he served in the Chinese Air Force in Taiwan, receiving training as Reserve Communication Officer. From 1971 to 1972 he studied solid-state electronics at SUNY at Stony Brook under a National Science Foundation Fellowship. In 1972 he joined the Microwave Solid-State Circuits Group at Cooley Electronics Laboratory of The University of Michigan, Ann Arbor, as a Research Assistant. He also worked for the electrooptics group of Cooley Electronics Laboratory in the summer of 1974. He was awarded a Rackham Dissertation Fellowship from the University of Michigan during 1974-1975. He is currently completing studies in microwave solid-state circuits for the Ph.D. degree. His interests include integrated optics and telecommunication electronics.

Mr. Chang is a member of Eta Kappa Nu.



**John E. Erickson** received the B.S. and M.S. degrees in electrical engineering from the University of Illinois, Urbana, in 1968 and 1969, respectively.

He was commissioned by the U.S. Air Force in 1968 and went on active duty in 1969. His first assignment was with the Advanced Ballistic Reentry System Program Office of the Air Force's Space and Missile Systems Organization at Norton AFB, CA.

There he assumed responsibility for all electrical systems on the Athena H missile development program. Upon completion of the missile development and flight test phases, he transferred to the U.S. Air Force Rome Air Development Center, Rome, NY, where he performed R & D activities to develop new techniques needed to reduce electronic systems compatibility problems. Now a Captain, he recently transferred to the U.S. Air Force Academy, Colorado Springs, CO, where he is an Instructor in the Department of Electrical Engineering.



**Peter J. Khan** (M'61) was born in Bowral, Australia, on November 12, 1936. He received the B.S. degree in mathematics and physics, and the B.E. and Ph.D. degrees in electrical engineering, all from the University of Sydney, Sydney, Australia, in 1957, 1959, and 1963, respectively.

From 1953 to 1959 he was employed by the Weapons Research Establishment at Salisbury, South Australia, carrying out research and development in electronic circuits.

After completion of his doctoral studies in parametric amplification, he came to the University of Michigan, Ann Arbor, in 1963 as a Fulbright Postdoctoral Fellow. He is now an Associate Professor in the Department of Electrical and Computer Engineering, and head of the Microwave Solid-State Circuits Group at the Cooley Electronics Laboratory. During 1975 he was a Visiting Professor in the

School of Electrical Engineering at the University of New South Wales, Australia. His research interests include solid-state oscillators, field analysis of microwave structures, varactors, and biological effects of microwave radiation.

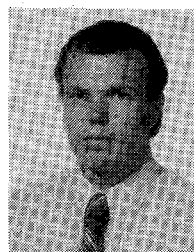
Dr. Khan is a member of Sigma Xi.



**Walter H. Ku** (S'56-M'62) received the B.S. degree (with Honors) from the University of Pennsylvania, Philadelphia, in 1957, and the M.S. and Ph.D. degrees from the Polytechnic Institute of Brooklyn, New York, NY, in 1958 and 1962, respectively, all in electrical engineering. From 1957 to 1960 he held a Research Fellowship at the Polytechnic Institute of Brooklyn.

From 1960 to 1962 he was associated with the Network Theory Group of the Microwave Research Institute of the Polytechnic Institute of Brooklyn. During the summers of 1956 and 1958 he worked at the IBM Product Laboratory and Vitro Electronics Corporation. From 1962 to 1969 he was with the Applied Research Laboratory of the Sylvania Electronic Systems, Waltham, MA, as a Senior Scientist. From 1963 to 1969 he was also a Lecturer in the Graduate School of Northeastern University, Boston, MA. He joined the faculty of the School of Electrical Engineering of Cornell University, Ithaca, NY, in 1969 and is presently Associate Professor of Electrical Engineering. From 1973 to 1974 he was on leave from Cornell and was a Visiting Faculty Member in the Department of Electrical Engineering and Computer Sciences, University of California, Berkeley. He has served as a Consultant to Sylvania Electronic Systems, Honeywell Radiation Center, and TRW Systems. His current research interests are in the areas of active and microwave circuit design, digital filter structures and signal processing techniques, and digital communications systems.

Dr. Ku is a member of Sigma Xi, Tau Beta Pi, Sigma Tau, Eta Kappa Nu, and an Associate Editor of the IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS.



**John D. Nordgard** was born in Charleston, SC, on September 11, 1943. He received the B.S. degree in electrical engineering from the Georgia Institute of Technology, Atlanta, in 1966 as a cooperative student with the Charleston Naval Shipyard, Charleston, SC. He received the M.S. and Ph.D. degrees in applied physics from the California Institute of Technology, Pasadena, in 1967 and 1969, respectively.

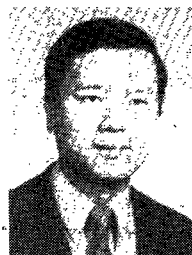
During his graduate studies, he was associated part time with the Jet Propulsion Laboratory, Pasadena. After completing his studies, he received a postdoctoral fellowship at the University of Oslo, Norway. Currently, he is a member of the faculty of the School of Electrical Engineering, Georgia Institute of Technology. He has been associated part time with the Bell Laboratories, Atlanta. He is currently interested in wave propagation and cable coupling problems.

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



**Shinnosuke Sawa (M'72)** was born in Osaka, Japan, on October 23, 1938. He received the B.E. degree in electrical engineering from the University of Osaka Prefecture, Osaka, Japan, in 1962, and the M.E. and Ph.D. degrees, both in electrical communication engineering, from Osaka University, Osaka, Japan, in 1967 and 1970, respectively.

From 1962 to 1964 he worked in industry for the Mitsubishi Electric Corporation, where he was engaged in ignitron manufacture and vacuum switch development at the Kyoto Plant of the Corporation. Since 1970 he has been an Associate Professor of Electronics Engineering at Ehime University, Matsuyama City, Japan, engaged in research and education in electromagnetic theory, electromagnetic wave engineering, optical waveguides, and optical integrated circuits.



**You-Sun Wu (S'70-M'73)** was born in Kiang-Su, China, on August 27, 1944. He received the B.S. degree in electrical engineering from the National Taiwan University, Taiwan, in 1967, and the M.S. and D.Sc. degrees from Washington University, St. Louis, MO, in 1970 and 1972, respectively.

From 1968 to 1972 he was a Research Assistant at Washington University doing research on Gunn diodes and microwave ferrite devices. From 1972 to 1973 he was a Research Associate at the School of Electrical Engineering, Cornell University, Ithaca, N.Y., working on design of high-power solid-state amplifiers and circulators with low intermodulation characteristics. Since November 1973 he has been a member of the technical staff of the Central Research Laboratories, Texas Instruments Incorporated, Dallas, TX, where he is engaged in research concerning microwave solid-state amplifiers and oscillators.