

# Editorial

**A**S OF JANUARY 1, 1986, my editorship of this Transactions was turned over to Dr. Ralph Levy. Actual day-to-day operations as the Editor had not been transferred until February 1. Now, all the operations are in the hands of Dr. Levy. He has been active in a number of MTT-related activities and has published extensively. I am sure that he will handle this important assignment in an expert manner.

During my tenure as Editor, the editorial process has been computerized. We have developed a software run on a personal computer. Other than assignment of reviewers and disposition of the paper, which are done by the Editor, all administrative tasks are handled by computer. Implementation of this software has resulted in a significant reduction of the average time of processing and has reduced a number of human factors.

A number of individuals have helped my job significantly. First, I have to thank all reviewers and members of the Editorial Board. Only through their dedication and effort can we attain and maintain such a high standard and reputation this Transactions is known for. Even though I have tried not to overburden them, I have occasionally broken this rule.

Efforts by several Associate Editors have to be recognized. Norman R. Dietrich has made Patent Abstracts one of the most popular columns in the Transactions. His expert handling has been succeeded by John J. Daly since

April 1985. Dr. E. Yamashita and his successor since January 1985, Dr. M. Akaike, supplied yearly Asian Abstracts. F. Ivanek has been very instrumental in the selection of invited papers and tutorial papers. P. Staecker has created the superb "1952-1983 Symposium Index" issue published in September 1983. The Centennial Issue, edited by T. S. Saad (September 1984), has been selected as the best centennial issue by the IEEE. The annual Symposium Issue editors, Dr. G. R. Thoren (1983), Dr. E. J. Crescenzi, Jr. (1984), and Dr. M. W. Muller (1985), have done excellent jobs. I also thank the other Special Issue Editors. They are V. G. Gelnovatch (January 1983, February 1983), the late Dr. H. Jacobs (February 1983), Drs. H. Q. Tserng and C. Huang (March 1984), Dr. J. C. Toler (August 1984), and Drs. J. W. Mink and F. K. Schwering (October 1985).

MTT-S Adcom has been very helpful and has supported my editorial policy. The Headquarters staff at the IEEE, Ms. Gail Ferenc and William Hagen, have also worked very hard and coordinated with my office very well. Finally, I thank my employer, The University of Texas, for their understanding in my undertaking this task.

Recollecting the past three years, I can say confidently that this assignment has been one of the most rewarding experiences of my life.

TATSUO ITOH  
*Editor*



**Tatsuo Itoh** (S'69-M'69-SM'74-F'82) received the Ph.D. degree in electrical engineering from the University of Illinois, Urbana, in 1969.

From September 1966 to April 1976, he was with the Electrical Engineering Department, University of Illinois. From April 1976 to August 1977, he was a Senior Research Engineer in the Radio Physics Laboratory, SRI International, Menlo Park, CA. From August 1977 to June 1978, he was an Associate Professor at the University of Kentucky, Lexington. In July 1978, he joined the faculty at the University of Texas at Austin, where he is now a Professor of Electrical and Computer Engineering and Director of the Electrical Engineering Research Laboratory. During the Summer 1979, he was a guest researcher at AEG-Telefunken, Ulm, West Germany. Since September 1983, he has held the Hayden Head Centennial Professorship of Engineering at the University of Texas. In September 1984, he was appointed Associate Chairman for Research and Planning of Electrical and Computer Engineering Department.

Dr. Itoh is a member of the Institute of Electronics and Communication Engineers of Japan, Sigma Xi, and Commission B of USNC/URSI. He served as Editor of IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES from 1983 to 1985. He is also a member of the Administrative Committee of the IEEE Microwave Theory and Techniques Society. He is a Professional Engineer registered in the State of Texas.



**Ralph Levy** (SM'64-F'73) was born in London, England, on April 12, 1932. He received the B.A. degree in physics from Cambridge University (St. Catharine's College), England, in 1953, and the M.A. degree in 1957. The Ph.D. degree from the Applied Sciences Faculty of London University was awarded in 1966, the work for this being carried out part time while employed in industry.

From 1953 to 1959, he was a member of the Scientific Staff at GEC, Stanmore (now Marconi Space and Defence Systems), England, where he worked on guided missile, radar, and countermeasures systems, and on waveguide components. In 1959, he joined Mullard Research Laboratories (now Phillips Research Laboratories), Redhill, Surrey, England, and continued his work on microwave components and systems, utilizing coaxial and stripline media. He developed a widely used technique for accurate instantaneous frequency and/or bearing measurement using several microwave discriminators in parallel ("digital IFM"). This work in electronic countermeasures included the development of very broad-band components, such as decade bandwidth directional couplers and broad-band matching theory applied to amplifiers.

From 1964 to 1967, he was a member of the faculty at Leeds University and carried out research in microwave network synthesis, including realizations of distributed elliptic function filters, and exact synthesis techniques for branch guide and multi-aperture directional couplers.

From 1967 until November 1984, he was with Microwave Development Laboratories, Natick, MA, as Vice-President of Research. His work included the development of practical techniques for designing very broad-band mixed-lumped and distributed circuits, and synthesis and field theory techniques to facilitate the design of a variety of microwave components.

In 1984, he joined K. W. Engineering, San Diego, CA, as Vice-President of Engineering.

Dr. Levy has authored about 50 papers, 2 books, and 12 patents. While in England, he was a member of the IEEE Professional Group on Microwave Theory and Techniques and joint Editor of *Electronics Letters*. After emigrating to the U.S. in 1967, he became active in the local Chapter of S-MTT (Chairman, 1973/74), and was an Associate Editor of the IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS (1973/5). He was the Chairman of the Technical Program Committee for the 1983 S-MTT International Microwave Symposium held in Boston, MA.