Guest Editors' Overview

THE 1990 International Microwave Symposium and the Microwave and Millimeter-Wave Monolithic Circuits Symposium technical programs continued the growth trend that was experienced by our Society throughout the 1980's. Of the 614 papers that were submitted for consideration, the two Technical Program Committees accepted 331 for presentation at the symposia and for publication in the Symposium digests. The authors of the accepted papers were invited to submit an expanded version as a candidate for publication in this December issue of the TRANSACTIONS. Eighty-six manuscripts were submitted for this special consideration.

We, as Guest Editors, were provided guidance by the Administrative Committee last December (1989) at its meeting in Dallas. The guidance was to limit the technical page count to around 200 pages, a significant reduction from the 300 pages last year. The motivation behind the guidance was centered on two concerns: publication costs to the Society and a general feeling that in previous years some of the TRANSACTIONS papers did not represent much more than a reprint of the digest paper. To reach the page limit guideline, we determined that a target of 30 papers should be set. However, we both agreed that we would exceed the guidelines rather than reject outstanding contributions. After an intense review process, 31 manuscripts were selected for publication. These papers span an impressive range of engineering and scientific activities in the general area of microwave and millimeter-wave theory and applications. A number of excellent papers could not be included in this issue as they required revisions that would involve a second review process, a procedure that could not be accomplished within the publication deadline. Some of these papers should appear in the regular issues of the TRANSACTIONS in the near future.

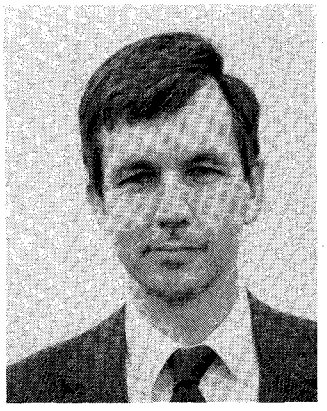
It has been an honor and a privilege to perform the duties of Guest Editors of this Symposium issue. Our wholehearted appreciation goes out to all the reviewers for the time and effort they expended to ensure we maintain the highest standards for our TRANSACTIONS. (The reviewers are listed below.) The active support of the authors, including timely submissions of the original manuscripts and of their revisions addressing the reviewers' comments, was very much appreciated. Finally, we wish to thank our secretaries, Mrs. Tracy Culver and Mrs. Pat Palmer, for their dedication in performing the extensive, time-consuming, and repetitious tasks that were required to compile this Special Issue.

DAVID N. MCQUIDDY, JR.
VLADIMIR SOKOLOV
Guest Editors

David N. McQuiddy, Jr. (M'69–SM'83–F'86) received the B.E.E.E. degree (magna cum laude) from Vanderbilt University in 1960 and served as a commissioned officer in the U.S. Navy for three years. He received the M.S.E.E. degree in 1965 and the Ph.D. in 1968 from the University of Alabama following his naval tour of duty.

He has been with Texas Instruments since 1968 and presently is manager of the GaAs Electronics Department for the Defense Systems and Electronics Group in Dallas, TX. He has been responsible principally for the development of a GaAs MMIC facility within TI and for deploying GaAs microwave technology in radar, guided missile, and EW systems. In 1986, Texas Instruments and Raytheon formed a joint venture company to pursue the DoD MIMIC program. A major Phase 1 contract was won by the Raytheon/Texas Instruments MIMIC Joint Venture in 1988 and Dr. McQuiddy was appointed to serve as the Joint Venture president.

Dr. McQuiddy has published on processing techniques, GaAs microwave device developments, and the use of GaAs technology for solid-state radar systems. He is a coholder of two patents on parametric amplifiers. He has served as chairman of the Dallas Chapter of MTT-S and was chairman of the Steering Committee for the 1982 International Microwave Symposium, held in Dallas. Dr. McQuiddy is a member of the MTT-S Administrative Committee and served in 1987 as MTT-S president.



Vladimir Sokolov (M'75) received the B.S. degree in science engineering from Northwestern University in 1968 and the M.S. and Ph.D. degrees in electrical engineering from the University of Wisconsin, Madison, in 1970 and 1973, respectively.

From 1974 to 1975, he was a Senior Engineer in the Electronics Division, Defense Systems Department, of Northrop Corporation, where he was engaged in the development of *X*- and *Ku*-band microstrip circuits for ECM applications. From 1975 to 1981, he was a Member of Technical Staff at the Central Research Laboratories of Texas Instruments, where his work included the development of microwave FET and IMPATT hybrid amplifiers through 20 GHz. At TI he contributed to the demonstration of one of the first *X*-band 1 watt monolithic amplifiers. He coauthored a chapter on FET circuit design in the book *GaAs FET Principles and Technology* (Artech House, 1982). He joined Honeywell's Corporate Technology Center in 1981. At Honeywell he helped establish a millimeter-wave packaging and testing facility and demonstrated several *Ka*-band MMIC's for phased array applications. From 1986 to 1989 he was the Section Head of the GaAs Microwave and MM-Wave Electronics Section. In January 1990 he became Staff Scientist for the Microsystems and Circuits Science Area of Honeywell's Systems and Research Center, where his responsibilities include the application of MMIC and related technologies for Honeywell's space and aviation systems businesses.

Dr. Sokolov is on the Steering Committee of the Microwave and Millimeter-Wave Monolithic Circuits Symposium. He is also Adjunct Professor at the University of Minnesota.

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