

# Contributors



**Ali E. Atia** (S'67-M'69) was born in Cairo, Egypt, on August 10, 1941. He received the B.S. degree with honors from Ain Shams University, Cairo, in 1962, and the M.S. and Ph.D. degrees from the University of California, Berkeley, in 1966 and 1969, respectively, all in electrical engineering.

From 1962 to 1964 he was a Lecturer in the Department of Electrical Engineering, Ain Shams University. From 1965 to 1968 he was a Research Assistant in the Electronics Research Laboratory, University of California. From 1968 to 1969 he was a Teaching Fellow and Assistant Professor in the Department of Electrical Engineering and Computer Sciences, University of California. In 1969 he joined COMSAT Laboratories, Clarksburg, MD, and since then he has been engaged in research and development of various microwave subsystems and antennas for communication satellites.

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**Hans L. Hartnagel** (SM'72) was born in Geldern, Germany, in 1934. He received the Dipl.Ing. degree in 1960 from the Technical University, Aachen, Germany, and the Ph.D. and the Dr.Eng. degrees from the University of Sheffield, Sheffield, England, in 1964 and 1971, respectively.

After having worked for a short period with the Microwave Tube Laboratories, Telefunken, Ulm, Germany, he joined the Institut National des Sciences, Appliquées, Villeurbanne, Rhône, France. In October 1961 he was with the Department of Electronic and Electrical Engineering, University of Sheffield, as a Senior Research Assistant; in October 1962 as a Lecturer, and in October 1968 as a Senior Lecturer. On June 12, 1970, he received the title of Reader in Electronic and Electrical Engineering. Since January 1, 1971, he has been a Professor of Electronic Engineering in the Department of Electrical and Electronic Engineering, University of Newcastle upon Tyne, Newcastle upon Tyne, England. He is the author of two books, one on semiconductor plasma instabilities and one on Gunn-effect logic, and has written numerous papers.

Dr. Hartnagel is a Fellow of the Institution of Electronics and Radio Engineers and a member of the Institution of Electrical Engineers, London.

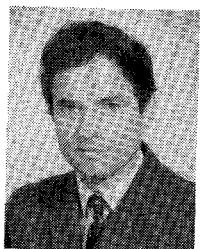
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**Dimitrios Pavlidis** (S'73) was born in Athens, Greece, on July 9, 1950. He received the B.Sc. degree in physics from the University of Patras, Patras, Greece, in 1972.

Since January 1973 he has been engaged on research on applications of active solid-state devices for microwave communication systems, this research being in preparation for the Ph.D. degree at the Department of Electrical and Electronic Engineering, University of Newcastle upon Tyne, Newcastle upon Tyne, England. He is currently a Research Associate in this department. His interests include injection-locking transient phenomena and broad-band frequency switching of microwave oscillators, wave propagation in dielectric lines, and microstrip applications.

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**Albert E. Williams** (S'66-M'66) was born in Albany, Australia. He received the B.E. in Electrical engineering from the University of Western Australia, Nedlands, in 1962, and the Ph.D. from University College, London, England, in 1966.

From 1966 to 1968 he was a Lecturer in the Department of Electrical Engineering, University of Western Australia. Currently, he is a Technical Staff member of the Antennas Department of the Microwave Laboratory at COMSAT Laboratories, where he is working on antenna and filter theory applicable to future communications satellites.

Dr. Williams was a joint recipient of the Institute of Electrical Engineers (London) Sylvanus P. Thompson Premium award in 1966.

## Overseas Abstracts

### PAPERS FROM JOURNALS PUBLISHED IN AUSTRALIA, INDIA, AND JAPAN

Compiled by Prof. T. Okoshi, Department of Electronic Engineering, University of Tokyo. The periodicals investigated are: 1) *Transactions of the Institute of Electronics and Communication Engineers of Japan* (*Trans. IECEJ*), 2) *Journal of the IECEJ*, 3) *Journal of the Institution of Electronics and Telecommunication Engineers (J. IETE (India))*, 4) *Proceedings of the Institution of Radio and Electronics Engineers (Proc. IREE (Australia))*, and 5) *Australian Telecommunication Research (ATR)*.

As for the Japanese papers in the *Trans. IECEJ*, two-page English summaries (½ page for Correspondences) will be available in "Abstracts of IECE Transactions" published concurrently

from the *IECEJ, Kikai-Shinko-Kaikan*, 3-5-8 Minato-ku, Tokyo 105, Japan. From January 1976, the title of the journal changed into "Transactions of IECEJ, Section E," where "E" denotes English.

#### Amplifiers and Oscillators

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**Load-Variation-Detecting Characteristics of a Detector-Diode-Loaded Gunn Oscillator**, by M. Kotani, S. Mitsui, and K. Shirahata (Central Research Lab., Mitsubishi Electric, Itami-shi, 664 Japan): *Trans. IECEJ*, vol. 58-B, pp. 203-210, May 1975.

In simple microwave Doppler radars such as those to be used in automobiles, the load variation in the external space is mostly