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Dr. Canosa is group leader for the plasma physics project at the Palo Alto Scientific Center. He received a B.S. in Physics from the University of Barcelona, Spain, 1955; an M.S., 1961, and a Ph.D., 1964, both in Applied Physics from Harvard University. From 1964 to 1967 he worked as a physicist at the Vallecitos Atomic Laboratory of the General Electric Company, Pleasanton, California, where he carried out research in nuclear reactor safety. Since joining IBM in 1967 he has been doing research in mathematical and computational physics. In 1968 he was a Lecturer in Nuclear Engineering at the University of California, Berkeley. He is a member of Sigma Xi, the American Physical Society, and the Society for Industrial and Applied Mathematics.

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Mr. Falkoff is Manager of the Philadelphia Scientific Center. He joined IBM in 1955 and since 1960 has worked on various aspects of computer science in the Research and Data Processing Divisions. His education includes a B.Ch.E. from the City College of New York in 1941 and an M.A. in Mathematics from Yale University in 1963, the latter under the IBM Resident Scholarship Program. He has taught at the IBM Systems Research Institute and at Yale University as a Visiting Lecturer.

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Dr. Gerber joined IBM in 1968 at the Research Center in the Department of Mathematical Sciences, where he has worked on nonlinear differential equations, numerical analysis, algebras, and applied mathematics. He is also an Adjunct Assistant Professor of Computer Science at New York University. Dr. Gerber received a B.S. in Mathematics from the California Institute of Technology, Pasadena, in 1962 and an M.S. and a Ph.D. in Mathematics from New York University in 1966 and 1968, respectively. From 1963 to 1968 he was a Research Assistant at New York University's Courant Institute. Dr. Gerber is a member of the American Mathematical Society and the Society for Industrial and Applied Mathematics.

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Dr. Ghandour joined IBM in 1968 at the Thomas J. Watson Research Center, Yorktown Heights, New York, where he worked on APL implementation and the fundamentals of computer science. Currently he is working on the development of a theory of arrays. He received a B.E. in 1962 from the American University of Beirut, where he taught until 1964. He received an M.Sc. in 1965 and a Ph.D. in 1968, both in Engineering and Applied Sciences from Yale University. He was a Visiting Lecturer at Yale University from 1969 to 1970 and at the University of Pennsylvania from 1971 to 1972. Dr. Ghandour is a member of the Association for Computing Machinery and the Institute of Electrical and Electronics Engineers.

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Dr. Iverson is an IBM Fellow resident at the Philadelphia Scientific Center and has been with IBM since 1960. He received a B.A. in Mathematics and Physics from Queen's University, Kingston, Canada in 1950, and an A.M. in Mathematics and a Ph.D. in Applied Mathematics from Harvard University in 1951 and 1954, respectively. He taught at Harvard from 1954 to 1960 and is the author of four books: *A Programming Language*, 1962; *Automatic Data Processing* (with F. P. Brooks, Jr.), 1963; *Elementary Functions*, 1966; and *Algebra: an Algorithmic Treatment*, 1972.

Rolf Landauer

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Dr. Landauer was named an IBM Fellow in 1969. This appointment permits him to pursue projects of his own choice in his field of solid state theory with emphasis on its relationship to the computation process. His educational background includes a B.S. in Electronic Physics, 1945; an M.S. in Physics, 1947; and a Ph.D. in Physics, 1950, all from Harvard University. He was an Electronic Technician's Mate 3/c, U.S.N.R., from 1945 to 1946, and worked at the Lewis Laboratory, National Advisory Committee for Aeronautics, Cleveland, Ohio, from 1950 to 1952. Since then he has held a variety of research and managerial positions in the Research Division, including Director of Physical Sciences and Assistant Director of Research.

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Mr. Lathwell joined IBM at the Thomas J. Watson Research Center, Yorktown Heights, New York, in 1966 and has since been involved with APL and its implementations. Currently he is Manager of APL Implementation and System Design at the Scientific Center. Mr. Lathwell received a B.Sc. in Mechanical Engineering from the University of Alberta in 1965 and also attended graduate school there.

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Mr. Mezei has been with the Data Processing Division since 1969, where his most recent work includes a formal description of APL. He joined IBM in 1958 at the Research Division and worked mainly on applications of algebra to automata theory. Mr. Mezei received a B.S.E.E. and an M.S.E.E. from the Massachusetts Institute of Technology in 1958 and 1961, respectively, the latter obtained as an IBM scholar. He subsequently received an M.S. in Mathematics from New York University in 1966 and has attended graduate school at Columbia University.

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Dr. Peng came to the Polytechnic Institute as a student in 1962, received a Ph.D. in Electrophysics in 1968, and is currently a Research Associate in the Department of Electrical Engineering and Electrophysics. During 1969 to 1970 he was a Visiting Professor at Chiao-Tung University, Taiwan, China. In

1972 he participated in the Summer Research Program at the Thomas J. Watson Research Center, Yorktown Heights, New York, working in the Department of Applied Research. Dr. Peng's prior education includes a B.S. and an M.S. in Electrical Engineering from Cheng-Kung University, 1959, and Chiao-Tung University, 1961, respectively, both in Taiwan.

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Dr. Shimizu is an Assistant Professor of Applied Physics at the University of Tokyo, where he has taught since 1972. He received a doctoral degree in science from the University of Tokyo in 1967. He was a Postdoctoral Fellow in the Department of Physics at the University of Toronto from 1967 to 1968 and later spent two years in the Division of Applied Physics and Engineering at Harvard University. Dr. Shimizu became associated with IBM in 1970 at the Zurich Research Laboratory, where he did work in quantum electronics. His interests are nonlinear optics; especially, stimulated scattering processes, self-focusing, and nonlinear transient effects, and high resolution spectroscopy using infrared gas lasers. Dr. Shimizu is a member of the Physical Society of Japan, the American Physical Society, and the Japanese Applied Physical Society.

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*Erratum: A typing error not detected in proofreading led to the omission of the factor, x^{a-1} , in Eq. (1) and the Abstract, where the density function of the Gamma probability distribution was defined.

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