# **Authors**

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Cornell University: E.E., 1930; M.E.E., 1931; Ph.D., 1939. Member of Faculty of Electrical Engineering and Faculty of Engineering Physics at Cornell University, 1941-1957. Consultant to IBM, 1956-1957. Joined IBM as Senior Engineer and Consultant to Manager of Product Development Laboratory, May 1957. Is now Manager of the Technical Staff of the Poughkeepsie Product Development Laboratory. Member of AIEE, IRE, Sigma Xi, Tau Beta Pi, Eta Kappa Nu.

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## Charles H. Knapp

B.S.E.E., University of Connecticut, 1953; M.E.E., Yale University, 1956. Joined IBM in 1956 and worked on development of transistor error-sampled sweep position control system; was engaged in research on digital controllers for self-optimizing control systems. Recently left IBM to resume doctoral studies at the University of Connecticut. Member of IRE, Tau Beta Pi, Eta Kappa Nu, Sigma Xi.

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Sorbonne University, Paris: Docteur Es Sciences, April 1923. Joined IBM in June 1952 at the New York Data Processing Center and has been engaged as a consulting mathematician in (a) interpretation of gravimetric and magnetic anomalies with the aid of the electronic computing equipment; (b) research on shortest mathematical procedures for determining elementary functions with computers. He was awarded the Order of Scientific Merit (Nshan Elmi) by the Iranian Government in 1938 for the organization of Teheran University and for the teaching of Celestial Mathematics, Applied Geophysics and various branches of higher mathematics during 1933-1938.

He is an active member of the American Mathematical Society and the Society of Exploration Geophysicists.

#### John J. Lentz

B.S., California Institute of Technology, 1938; M.S., California Institute of Technology, 1939. Instructor of Electrical Engineering, California Institute of Technology, 1941-42. Staff member of the Radiation Laboratory at Massachusetts Institute of Technology. Served in Office of Scientific Research and Development in 1944. Joined IBM in 1946 as Research Engineer. Presently a Senior Engineer at Watson Research Laboratory and is working in cryogenics. Member of IRE, AIEE, Sigma Chi, American Physical Society and Federation of American Scientists.

#### Leonard D. Seader

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#### **Eugene Shapiro**

Attended the City College of New York. Joined the IBM Poughkeepsie Laboratories in 1955 and worked on analysis of transistor equivalent circuits. Since then, has been engaged in design of transistor operational feedback amplifiers and in development of a sampled-data control system. He is now Project Engineer in charge of the process control technology group of the circuit logic department at the Poughkeepsie Research Center.

#### Robert A. Thorpe

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