

## **Nathan O. Sokal - Biography**

Nathan Sokal received the 2007 Microwave Pioneer award from the IEEE Microwave Theory and Techniques Society “in recognition of a major, lasting, contribution ... development of the Class-E [high-efficiency switching-mode] RF power amplifier.” In 1989, he was elected a Fellow of the IEEE, for his contributions to the technology of high efficiency switching-mode power conversion and switching-mode RF/microwave power amplification. In 1965, he founded Design Automation, Inc., a consulting company doing electronics design review, product design, and solving “unsolvable” problems, for equipment manufacturing clients. Much of that work has been on high efficiency switching mode RF power amplifiers at frequencies up to 2.5 GHz, and switching mode dc-dc power converters. He holds eight patents in power electronics, and is the author or co-author of two books and about 130 technical papers, mostly on high efficiency generation of RF power and dc power. During 1950 to 1965 he held engineering and supervisory positions for design, manufacture, and applications of analog and digital equipment. He received B.S. and M.S. degrees in Electrical Engineering from the Massachusetts Institute of Technology, Cambridge, Massachusetts, in 1950. He is a Technical Adviser to the American Radio Relay League, on RF power amplifiers and dc power supplies, and a member of the Electromagnetics Society, Eta Kappa Nu, and Sigma Xi honorary professional societies.