



# System-level Techniques for Analog Performance Enhancement

*By Bang-Sup Song*

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This book shows readers to avoid common mistakes in circuit design, and presents classic circuit concepts and design approaches from the transistor to the system levels. The discussion is geared to be accessible and optimized for practical designers who want to learn to create circuits without simulations. Topic by topic, the author guides designers to learn the classic analog design skills by understanding the basic electronics principles correctly, and further prepares them to feel confident in designing high-performance, state-of-the art CMOS analog systems. This book combines and presents all in-depth necessary information to perform various design tasks so that readers can grasp essential material, without reading through the entire book. This top-down approach helps readers to build practical design expertise quickly, starting from their understanding of electronics fundamentals.

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#### **From the Back Cover**

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#### **About the Author**

Bang-Sup Song received the B.S. from the Seoul National University in 1973, the M.S. from the Korea Advanced Institute of Science in 1975, and the Ph.D. from the University of California, Berkeley in 1983. From 1975 to 1978, Dr. Song was a research staff at Agency for Defense Development, Korea working on fire-control radars and spread-spectrum communications. From 1983 to 1986, he was a member of technical staff at AT&T Bell Laboratories, Murray Hill, and was also a visiting faculty member in the Department of Electrical Engineering, Rutgers University. From 1986 to 1999, he was a professor in the Department of Electrical and Computer Engineering and the Coordinated Science Laboratory, University of Illinois at Urbana. In 1999, he joined the faculty of the Department of Electrical and Computer Engineering, University of California, San Diego, where he is endowed with Charles Lee Powell Chair in Wireless Communication. Dr. Song received a Distinguished Technical Staff Award from AT&T Bell Laboratories in 1986, a Career Development Professor Award from Analog Devices in 1987, and a Xerox Senior Faculty Research Award from the University of Illinois in 1995. His IEEE activities have been in the capacities of an Associate Editor, a Guest Editor, and a Program Committee Member for IEEE Transactions on Circuits and Systems, IEEE Journal of Solid-State Circuits, IEEE International Solid-State Circuits Conference, and IEEE Symposium on Circuits and Systems. Dr. Song is an IEEE Fellow.

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