



Communications System Laboratory

By B. Preetham Kumar

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Communications System Laboratory offers an integrated approach to communications system teaching. Inspired by his students' expressed desire to read background theory explained in simple terms and to obtain practical computer training, Dr. Kumar has crafted this textbook, ideal for a first course in communication systems.

The book merges theory with practical software and hardware applications. Each chapter includes the following components: a brief theory that describes the underlying mathematics and principles, a problem-solving section with a set of typical problems, a computer laboratory with programming examples and exercises in MATLAB® and Simulink®, and finally, in applicable chapters, a hardware laboratory with exercises using test and measurement equipment.

Covering fundamental topics such as frequency and bandwidth, as well as different generations of modulation including current 4G long-term evolution (LTE) techniques and future technologies like ultra wideband (UWB) systems, **Communications System Laboratory** provides engineering students with a deeper understanding of how electronic communications link the world.

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Editorial Review

About the Author

B. Preetham Kumar holds a BE and ME from the College of Engineering, Chennai, India, and a Ph.D from the Indian Institute of Technology, Chennai. He is professor and graduate coordinator in the Department of Electrical and Electronic Engineering at California State University (CSUS), Sacramento, USA. Previously, he was part-time faculty at CSUS, and researcher/lecturer in the RF and Microwave Laboratory at University of California, Davis, USA. Widely published and highly decorated, Dr. Kumar has worked on projects funded by Lockheed Martin, Agilent Technologies, National Semiconductor, Intel, and Antenna Wireless, Inc. Currently, he is heading an effort to expand the use of microwave heating in the treatment of cancer.

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