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By Roy M. Howard



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- Provides readers with a useful reference when designing or modeling communications systems.



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Editorial Review

From the Back Cover

Randomness in communication and low noise electronic design-a thorough and accessible account

Random fluctuations are inherent in all electronic circuits, and communication signals are nondeterministic from a receiver perspective. Accordingly, the optimization of electronic circuits and communication systems requires techniques for characterizing random signals. Foremost among these is the power spectral density.

Principles of Random Signal Analysis and Low Noise Design presents, from a thorough signal theory basis, a comprehensive and straightforward account of the power spectral density and its applications. The author:

- * Details the power spectral density of the significant random signal forms
- * Illustrates theory with examples from communications and electronic circuit design
- * Presents a unified account for the power spectral density which encompasses periodic signals, aperiodic signals, and random processes, over finite and infinite intervals

Howard's systematic approach, his systematic account of the power spectral density, his coverage of the significant random signal forms, and his account of low noise design make this an important reference for researchers, for students of electrical and electronic engineering, and for engineers involved in the design or modeling of communications systems or solid state circuitry.

About the Author

ROY M. HOWARD received his PhD from the University of Western Australia and is a senior lecturer in the School of Electrical and Computer Engineering at Curtin University of Technology, Perth, Australia. His research interests include low noise amplifier design, stochastic modeling, 1/f noise, nonlinear systems, and nonlinear electronics. He has published several papers relevant to the material in the book.

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