



Waveform Diversity: Theory & Applications (Electronics)

By S Pillai, Ke Yong Li, Ivan Selesnick, Braham Himed

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Cutting-edge transmitter and receiver waveform design techniques

Optimum design can improve signal direction, interference, and noise suppression across various disciplines that utilize waveforms, including radar, sonar, and communications. *Waveform Diversity* explains the role of transmitter and receiver waveform design to boost overall performance. Written by experts in the field, this monograph covers joint transmitter receiver design, optimum design methods, constant envelope transmit signals, and sparsity-based receivers. Proven methods for mitigating noise and clutter and maximizing output signal power are included in this practical guide.

Waveform Diversity covers:

- Waveform design and matched filtering
- New methods for optimum transmitter and receiver design
- Transmitter threshold energy and energy-bandwidth tradeoff
- Increasing transmit power efficiency with constant envelope transmit signals
- Optimum waveform design to reduce noise and clutter
- Discrete-time waveform design
- Sparsity-based receiver design methods

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- Sales Rank: #1815661 in Books
- Published on: 2011-05-13
- Original language: English
- Number of items: 1
- Dimensions: 9.30" h x .85" w x 6.30" l, 1.15 pounds
- Binding: Hardcover
- 320 pages

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Editorial Review

About the Author

S. Unnikrishna Pillai is a Professor of Electrical and Computer Engineering at Polytechnic Institute of NYU. His research interests include radar signal processing, blind identification, spectrum estimation, data recovery, and waveform diversity. Dr. Pillai is the coauthor of *Space Based Radar*.

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Ivan Selesnick is an Associate Professor of Electrical and Computer engineering at Polytechnic Institute of NYU. His current research interests are in the areas of digital signal and image processing, wavelet and sparsity based methods for signal restoration, and biomedical signal processing.

Braham Himed is a Principal Electronics Engineer at the U.S. Air Force Research Laboratory, Radar Signal Processing Branch, Sensors Directorate. His research interests include radar signal processing, detection, estimation, multichannel adaptive processing, time series analysis, and array processing. Himed is the coauthor of *Space Based Radar*.

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