



Waveform Design and Diversity for Advanced Radar Systems (Iet Radar, Sonar and Navigation)

By Fulvio Gini, Antonio De Maio, Lee K. Patton

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This is the first book to discuss current and future applications of waveform diversity and design in subjects such as radar and sonar, communications systems, passive sensing, and many other technologies. Waveform diversity allows researchers and system designers to optimize electromagnetic and acoustic systems for sensing, communications, electronic warfare or combinations thereof. It enables solutions to problems with how each system performs its own particular function as well as how it is affected by other systems and how those other systems may likewise be affected. It is an excellent standalone introduction to waveform diversity and design, which takes a high potential technology area and makes it visible to other researchers, as well as young engineers.

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Editorial Review

About the Author

Antonio De Maio is an Associate Professor at the University of Naples "Federico II". His research interest lies in the field of statistical signal processing, with emphasis on radar detection and convex optimization applied to radar signal processing. Fulvio Gini is Full Professor at the University of Pisa. His research interests include modeling and statistical analysis of radar clutter data, non-Gaussian signal detection and estimation, parameter estimation and data extraction from multichannel interferometric SAR data. Lee K. Patton is a senior research engineer at the Matrix Research & Engineering, Dayton (OH), where he conducts research in radar signal processing and waveform design.

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