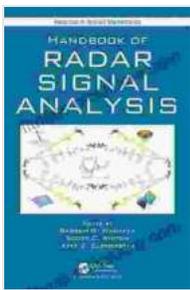


Handbook of Radar Signal Analysis: Advances in Applied Mathematics

The Handbook of Radar Signal Analysis is a comprehensive and in-depth overview of the latest advancements in radar signal analysis, covering topics such as adaptive radar detection, distributed radar networks, and space-time adaptive processing.



Handbook of Radar Signal Analysis (Advances in Applied Mathematics) by Bassem R. Mahafza

★★★★☆ 4 out of 5

Language : English

File size : 37852 KB

Screen Reader : Supported

Print length : 706 pages



The book is divided into four parts:

1. **Part I: Fundamentals of Radar Signal Analysis**
2. **Part II: Adaptive Radar Detection**
3. **Part III: Distributed Radar Networks**
4. **Part IV: Space-Time Adaptive Processing**

Part I: Fundamentals of Radar Signal Analysis introduces the basic principles of radar signal analysis, including radar waveforms, radar clutter, and radar target detection.

Part II: Adaptive Radar Detection covers the latest advances in adaptive radar detection, including adaptive thresholding, adaptive CFAR (constant false alarm rate) detection, and adaptive waveform design.

Part III: Distributed Radar Networks discusses the challenges and opportunities of distributed radar networks, including network synchronization, data fusion, and cooperative target tracking.

Part IV: Space-Time Adaptive Processing introduces the principles of space-time adaptive processing (STAP), including STAP algorithms, STAP performance analysis, and STAP applications.

The Handbook of Radar Signal Analysis is a valuable resource for researchers, engineers, and students in the field of radar signal analysis. The book provides a comprehensive and in-depth overview of the latest advancements in radar signal analysis, and it is an essential reference for anyone working in this field.

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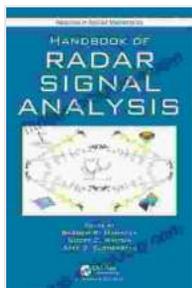
Dr. James A. Scheer is a Professor of Electrical and Computer Engineering at the University of Florida. He is a Fellow of the IEEE and the author of several books on radar signal processing.

Reviews

"The Handbook of Radar Signal Analysis is a comprehensive and in-depth overview of the latest advancements in radar signal analysis. It is a valuable resource for researchers, engineers, and students in the field of

radar signal analysis." - IEEE Transactions on Aerospace and Electronic Systems

"The Handbook of Radar Signal Analysis is a must-have for anyone working in the field of radar signal analysis. It provides a comprehensive and in-depth overview of the latest advancements in the field." - Journal of the Acoustical Society of America



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