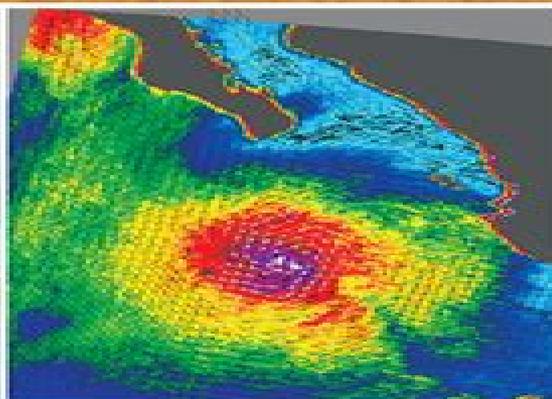


# PRINCIPLES OF **MODERN RADAR**

## **BASIC PRINCIPLES**



Mark A. Richards, James A. Scheer, William A. Holm (Editors)

# Principles Of Modern Radar Basic Principles

**Chengpeng Hao, Danilo Orlando, Jun  
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**Advances in Adaptive Radar Detection and Range Estimation** Chengpeng Hao, Danilo Orlando, Jun Liu, Chaoran Yin, 2021-12-03 This book provides a comprehensive and systematic framework for the design of adaptive architectures which take advantage of the available a priori information to enhance the detection performance Moreover this framework also provides guidelines to develop decision schemes capable of estimating the target position within the range bin To this end the readers are driven step by step towards those aspects that have to be accounted for at the design stage starting from the exploitation of system and or environment information up to the use of target energy leakage energy spillover which allows inferring on the target position within the range cell under test In addition to design issues this book presents an extensive number of illustrative examples based upon both simulated and real recorded data Moreover the performance analysis is enriched by considerations about the trade off between performances and computational requirements Finally this book could be a valuable resource for PhD students researchers professors and more generally engineers working on statistical signal processing and its applications to radar systems

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**Principles of Modern Radar** Chief Scientist and Technical Fellow William L Melvin,Independent Consultant USA Mark A Richards,2025-11 The second edition of Principles of Modern Radar Volume 2 Advanced Techniques is a comprehensive textbook aimed at advanced radar students and continuing education for professional radar and systems engineers **Radio and Electronics** John Hereward Reyner,1967 Microwave Journal ,2007

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