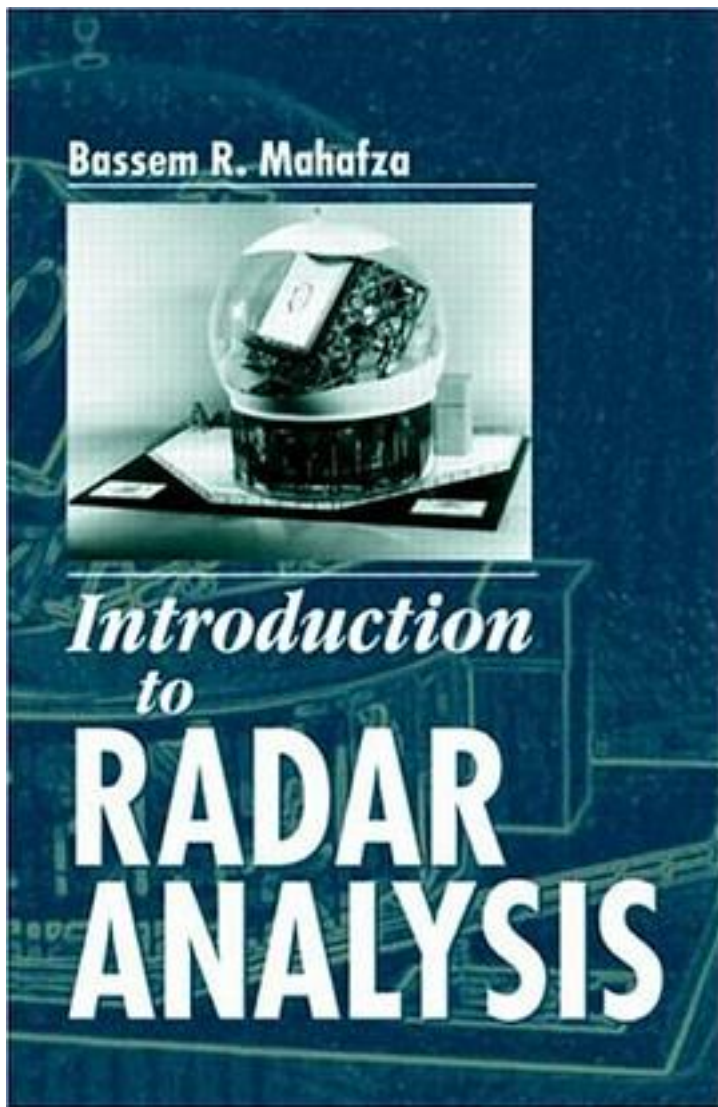# Introduction to Radar Analysis

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出版者:CRC Press

出版时间:1998-05-22

装帧:Hardcover

isbn:9780849318795

"Introduction to Radar Analysis" outlines the fundamental principles and applications of radar as well as important mathematical derivations - serving as a reference for engineers, technical managers, and students. This comprehensive book divides into two parts such as: general analytical treatment of radar signal processing and specific discussion of radar topics and radar types.Chapters of this book contain: derivations of the radar equation in many forms for an essential understanding of radar principles; examination of radar cross section and receiver noise; practical aspects of radar systems, including stretch processing, multipath propagation, and track filters; analysis of probability of detection and radar losses, CW and pulsed radars, and pulse compression; investigation of current research and industry trends, including clutter and wave propagation, Moving Target Indicator (MTI), tracking radars, and array antennas; a unique approach in presenting Synthetic Aperture Radar (SAR) 756 equations and formulas providing detailed mathematical derivations 165 examples and exercise problems as well as 149 figures and plots. "Introduction to Radar Analysis" acts as an essential stepping stone toward specialized topics - providing a clear, accessible framework of radar fundamentals as well as a thorough study of advanced topics and radar technology issues.

作者介绍:

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