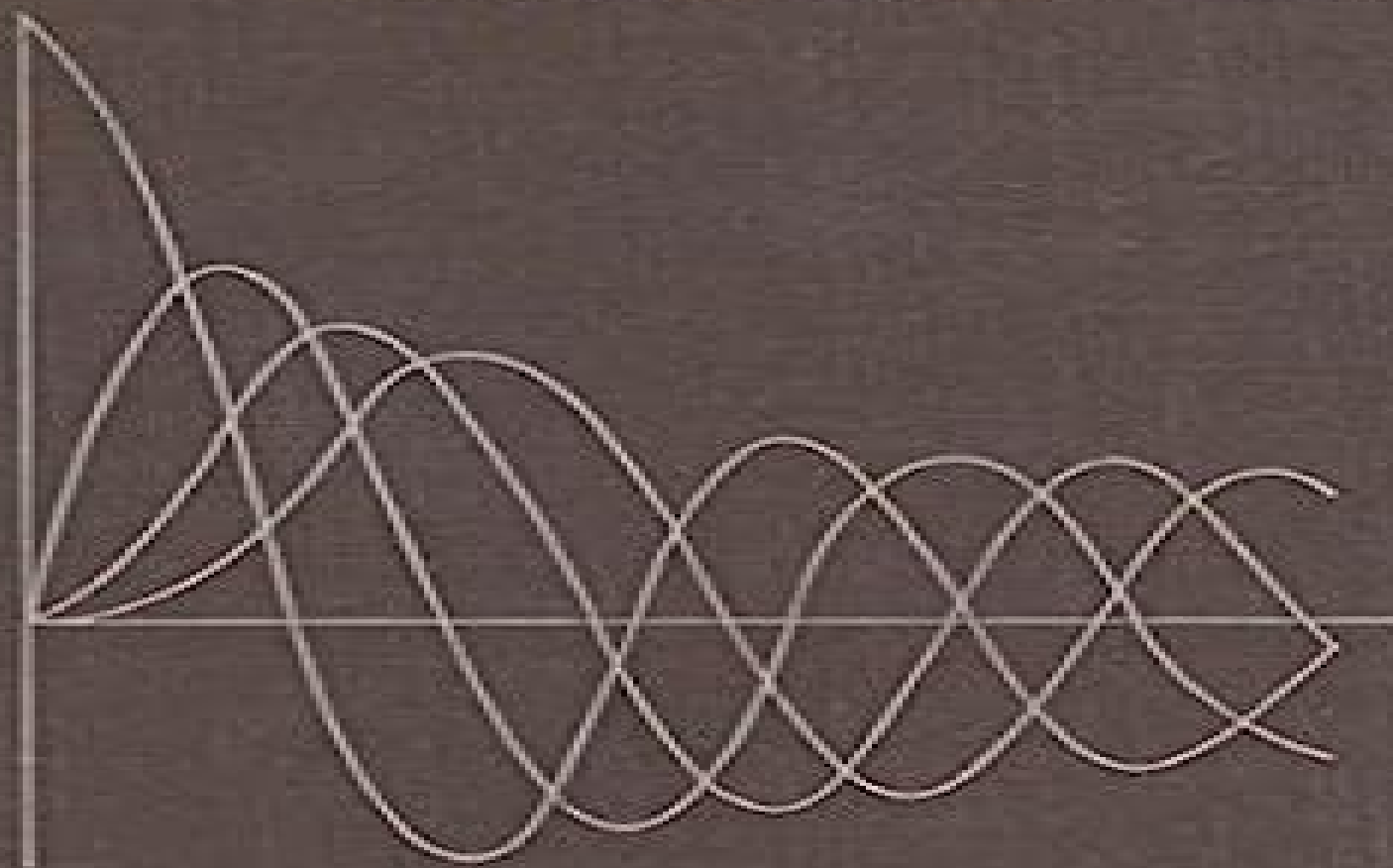


Introduction to
RADAR SYSTEMS



Introduction To Radar Systems Skolnik 2nd Edition

Wenbin Ji



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topics that readers would otherwise have to search a number of resources to find are included RF safety chapter provides a concise presentation of FCC recommendations including application examples and prepares readers to work with real world propagating systems Antenna chapter provides an introduction to a wide variety of antennas and techniques for antenna analysis including a detailed treatment of antenna polarization and axial ratio the chapter contains a set of curves that permit readers to estimate polarization loss due to axial ratio mismatch between transmitting and receiving antennas without performing detailed calculations Atmospheric effects chapter provides curves of typical atmospheric loss so that expected loss can be determined easily Rain attenuation chapter features a summary of how to apply the ITU and Crane rain models Satellite communication chapter provides the details of earth space propagation analysis including rain attenuation atmospheric absorption path length determination and noise temperature determination Examples of widely used models provide all the details and information needed to allow readers to apply the models with confidence References provided throughout the book enable readers to explore particular topics in greater depth Additionally an accompanying Wiley ftp site provides supporting MathCad files for select figures in the book With its emphasis on fundamentals detailed examples and comprehensive coverage of models and applications this is an excellent text for upper level undergraduate or graduate students or for the practicing engineer who needs to develop an understanding of propagation phenomena

Basic Radar Analysis, Second Edition Mervin C. Budge, Shawn R. German, 2020-04-30 This highly anticipated second edition of an Artech House classic covers several key radar analysis areas the radar range equation detection theory ambiguity functions waveforms antennas active arrays receivers and signal processors CFAR and chaff analysis Readers will be able to predict the detection performance of a radar system using the radar range equation its various parameters matched filter theory and Swerling target models The performance of various signal processors single pulse pulsed Doppler LFM NLFM and BPSK are discussed taking into account factors including MTI processing integration gain weighting loss and straddling loss The details of radar analysis are covered from a mathematical perspective with in depth breakdowns of radar performance in the presence of clutter Readers will be able to determine the noise temperature of a multi channel receiver as it is used in active arrays With the addition of three new chapters on moving target detectors inverse synthetic aperture radar ISAR and constant false alarm rate CFAR and new MATLAB codes this expanded second edition will appeal to the novice as well as the experienced practitioner

Introduction to Ultra-Wideband Radar Systems James D. Taylor, 2020-09-23 This introductory reference covers the technology and concepts of ultra wideband UWB radar systems It provides up to date information for those who design evaluate analyze or use UWB technology for any application Since UWB technology is a developing field the authors have stressed theory and hardware and have presented basic principles and concepts to help guide the design of UWB systems Introduction to Ultra Wideband Radar Systems is a comprehensive guide to the general features of UWB technology as well as a source for more detailed information

Radar Systems Analysis and Design

Using MATLAB Second Edition Bassem R. Mahafza, 2005-03-09 An introduction to radar systems should ideally be self contained and hands on a combination lacking in most radar texts The first edition of Radar Systems Analysis and Design Using MATLAB provided such an approach and the second edition continues in the same vein This edition has been updated expanded and reorganized to include advances in the field and to be more logical in sequence Ideal for anyone encountering the topic for the first time or for professionals in need of on the job reference this book features an abundance of MATLAB programs and code Radar Systems Analysis and Design Using MATLAB Second Edition presents the fundamentals and principles of radar along with enough rigorous mathematical derivations to ensure that you gain a deep understanding The author has extensively revised chapters on radar cross section and polarization matched filter and radar ambiguity function and radar wave propagation He also added information on topics such as PRN codes multipath and refraction clutter and MTI processing and high range resolution With all MATLAB functions updated to reflect version 7 0 and an expanded set of self test problems you will find this up to date text to be the most complete treatment of radar available providing the hands on tools that will enrich your learning

Monopulse Radar Theory and Practice, Second Edition Samuel M. Sherman, David Knox Barton, 2011 Monopulse is a type of radar that sends additional information in the signal in order to avoid problems caused by rapid changes in signal strength Monopulse is resistant to jamming which is one of the main reasons it is used in most radar systems today This updated and expanded edition of an Artech House classic offers you a current and comprehensive treatment of monopulse radar principles techniques and applications The Second Edition features two brand new chapters covering monopulse countermeasures and counter countermeasures and monopulse for airborne radar and homing seekers This essential volume categorizes and describes the various forms of monopulse radar and analyzes their capabilities and limitations The book also devotes considerable space to monopulse circuits and hardware components explaining their functions and performance This practical resource features numerous photographs and illustrations drawn from actual radar systems and components This book serves as a valuable reference for both experienced radar engineers and those new to the field

Small and Short-Range Radar Systems Gregory L. Charvat, 2014-04-04 Radar Expert Esteemed Author Gregory L Charvat on CNN and CBS Author Gregory L Charvat appeared on CNN on March 17 2014 to discuss whether Malaysia Airlines Flight 370 might have literally flown below the radar He appeared again on CNN on March 20 2014 to explain the basics of radar and he explored the hope and limitations of the technology i

[Principles of Integrated Maritime Surveillance Systems](#) A. Nejat Ince, Ercan Topuz, Erdal Panayirci, Cevdet Isik, 2012-12-06 Information is always required by organizations of coastal states about the movements identities and intentions of vessels sailing in the waters of interest to them which may be coastal waters straits inland waterways rivers lakes or open seas This interest may stem from defense requirements or from needs for the protection of off shore resources enhanced search and rescue services deterrence of smuggling drug trafficking and other illegal activities and or for providing vessel traffic services for safe and

efficient navigation and protection of the environment To meet these needs it is necessary to have a well designed maritime surveillance and control system capable of tracking ships and providing other types of information required by a variety of user groups ranging from port authorities shipping companies marine exchanges to governments and the military Principles of Integrated Maritime Surveillance Systems will be of vital interest to anyone responsible for the design implementation or provision of a well designed maritime surveillance and control system capable of tracking ships and providing navigational and other types of information required for safe navigation and efficient commercial operation Principles of Integrated Maritime Surveillance Systems is therefore essential to a variety of user groups ranging from port authorities to shipping companies and marine exchanges as well as civil governments and the military

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