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Chapter 2 provides a comprehensive description of the Radar Equation which is the basis for any further understanding of the subject. Chapters 3 & 4 cover MTI/Pulse Doppler Radar and Tracking Radars respectively. Chapter 7 gives a good overview of the topic of Radar Clutter. Clutter from the environment is inherently present in any radar image.

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M. I. Skolnik, Introduction to Radar Systems, 3rd Edition, McGraw-Hill, New York, 2001.

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Simulation is integral to the successful design of modern radar systems, and there is arguably no better software for this purpose than MATLAB. But software and the ability to use it does not guarantee success. One must also: Understand radar operations and design philosophy Know how to select the radar parameters to meet the design req

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This text has fully modernized coverage and maintained the unique original look and feel. Even the timeless principles and core fundamentals of general radar have been updated in wording and new graphics, while the more advanced concepts and applications in

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airborne radar have been brought into the digital age of radar signal processing and solid state electronics. This text is written specifically as an overview without going overboard on the math. Virtually anybody with a knowledge of high school algebra, trigonometry, and physics will be able to read and absorb the vast majority of the material. Living up to its moniker of Introduction, this book contains extensive fundamental materials and practical applications, using visual system exemplars to aid explanations. The full colour layout is enhanced with an immense number of illustrations, figures, tables, and photographs.

An introduction to the subject for non-specialists: engineers, technicians, pilots, and aerospace industry marketing, public relations, and customer support personnel. Also a reference for specialists in the field. The completely rewritten and revised Second Edition updates the original published by the Hughes Aircraft Company.

A thorough update to the Artech House classic Modern Radar Systems Analysis, this reference is a comprehensive and cohesive introduction to radar systems design and performance estimation. It offers you the knowledge you need to specify, evaluate, or apply radar technology in civilian or military systems. The book presents accurate detection

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range equations that let you realistically estimate radar performance in a variety of practical situations. With its clear, easy-to-understand language, you quickly learn the tradeoffs between choice of wavelength and radar performance and see the inherent advantages and limitations associated with each radar band. You find modeling procedures to help you analyze enemy systems or evaluate radar integrated into new weapon systems. The book covers ECM and ECCM for both surveillance and tracking to help you estimate the effects of active and passive ECM, select hardware/software for reconnaissance or jamming, and plan the operation of EW systems. As radar systems evolve, this book provides the equations needed to calculate and evaluate the performance of the latest advances in radar technology.

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