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He is the author of Radar System Analysis and Modeling (Artech House, 2004) and the co-editor of Radar Technology Encyclopedia, CD-ROM Edition (Artech House, 1999), among other publications.

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David K. Barton David K. Barton is a consultant on radar systems, recently retired from ANRO Engineering, Inc., of Hudson, Massachusetts. Since 1975, he has been the series editor of Artech House's highly successful Radar series. Holder of the IEEE's Centennial Medal, Millennium Medal, and Dennis J. Picard Medal, he is widely regarded throughout the world as a leading authority on radar ...

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Barton, David K., Modern Radar System Analysis, Artech House, Inc., NY (1988). A systems approach to radar by a very competent radar engineer. Earlier works by this author are plagued by typesetting errors; this work seems much better in this regard. Bowen, E. G., Radar Days, Adam Hilger, Bristol, 1987.

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ARTECH HOUSE RADAR

This book presents the basic principles, analyses, design formulas, and characteristics of various fin-line configurations. You'll find summaries of hundreds of rigorous formulas as well as approximate closed-form expressions, which can be readily programmed to generate design data for any structure. Discover millimeter-wave integrated circuits and components realized using the various fin-line techniques presented in the text, including directional couplers, power dividers, attenuators, detectors, modulators, and oscillators. An Artech House bestseller!

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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 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

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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.

Based on the classic Radar Range-Performance Analysis from 1980, this practical volume extends that work to ensure applicability of radar equations to the design and analysis of modern radars. This unique book helps you identify what information on the radar and its environment is needed to predict detection range. Moreover, it provides equations and data to improve the accuracy of range calculations. You find detailed information on propagation effects, methods of range calculation in environments that include clutter, jamming and thermal noise, as well as loss factors that reduce radar performance. This invaluable book is supported with nearly 200 illustrations and over 430 equations.

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Here's all the engineering information needed to integrate the fields of optics and electronics. Assembling a unique blend of expertise from industry, academia, and government, *Photonic Aspects of Modern Radar* shows the applications of this technology, both in the evolution of today's radar and in future systems.

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