



Adaptive Array Principles

J.E. Hudson

Adaptive Array Principles Electromagnetic Waves

Mireille Levy



Adaptive Array Principles Electromagnetic Waves:

Adaptive Array Principles J. E. Hudson,1981 Describes the ideas and associated mathematical concepts behind signal to noise ratio and target detectability *Adaptive Array Principles* J. E. Hudson,1981 The book reviews developments in the following fields adaptive array vector matrix optimal antennas main lobe constraints and suboptimal array [Introduction to Adaptive Arrays](#) Robert A. Monzingo,Thomas W. Miller,2004 Introduction to Adaptive Arrays serves as an introduction to the subject of adaptive sensor systems whose principle purpose is to enhance the detection and reception of certain desired signals The field of array sensor systems is now a maturing technology With applications of these systems growing more and more numerous there is a wealth of widely scattered literature on various aspects of such systems Unfortunately few books attempt to provide an integrated treatment of the entire system that gives the reader the perspective to organize the available literature into easily understood parts Intended for use both as a graduate level textbook and as a reference work for engineers scientists and systems analysts this book provides such an integrated treatment by emphasizing the principles and techniques that are of fundamental importance in modern adaptive array systems [Adaptive Array Principles](#) J. E. Hudson (Ph. D.),1981 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine *Parabolic Equation Methods for Electromagnetic Wave Propagation* Mireille Levy,2000 Provides scientists and engineers with a tool for accurate assessment of diffraction and ducting on radio and radar systems The author gives the mathematical background to parabolic equations modeling and describes simple parabolic equation algorithms before progressing to more advanced topics such as domain truncation the treatment of impedance boundaries and the implementation of very fast hybrid methods combining ray tracing and parabolic equation techniques The last three chapters are devoted to scattering problems with application to propagation in urban environments and to radar cross section computation Annotation copyrighted by Book News Inc Portland OR

[Propagation, Scattering and Dissipation of Electromagnetic Waves](#) A. S. Il'inskiĭ,Grigoriĭ I[A]kovlevich Slepia[n],A. Ya Slepyan,1993 Aimed at physicists and engineers conducting theoretical research or designing microwave and millimetre wave devices this study explores methods of calculating microwave absorption in waveguides resonators and periodic structures

Wireless Internet Of Things: Principles And Practice Amoakoh Gyasi-agyei,2020-04-22 This textbook is clearly a valuable resource for engineering students or anyone who wants to learn about wireless communication since it provides the technical fundamentals of the key theories and methods used for IoT communication If you are interested in learning about the technical details of IoT and wireless communication then this very well written book loaded with the fundamentals for understanding this rapidly growing system of the future is well worth reading IEEE Electrical Insulation MagazineThis textbook metamorphosed from notes that the author has been using to teach at four universities in Australia and New Zealand The book treats the physical principles and design of wireless Internet of Things IoT systems from

engineering perspective IoT enables communication between people between people and things and between things The book highlights the wide scope of sensors used in IoT including RFIDs smart mobile phones home consumer devices autonomous cars utility meters car park meters robots satellites radars and wireless positioning systems Three features render the book practically accessible First each chapter is organised in sections each of which ends with a set of authentic review questions to motivate reflection This is complemented by numerous worked examples in each section Third the book introduces two popular industry software packages for hands on practice MATLAB and CelPlanner With the growing popularity of softwarisation and cloudification possessing expertise in these packages makes one useful to the industry Parts of this book are taught in undergraduate curriculum while the rest is taught in graduate courses Both traditional and modern topics including C RAN network slicing NFV NB IoT and 5G use cases in IoT are covered Instructor s resources are provided for free to instructors who adopt the book as textbook for a unit course subject paper Please send your request to sales wspc com

Conformal Array Antenna Theory and Design Lars Josefsson, Patrik Persson, 2006-02-03 This is the first comprehensive treatment of conformal antenna arrays from an engineering perspective While providing a thorough foundation in theory the authors of this publication provide a wealth of hands on instruction for practical analysis and design of conformal antenna arrays Thus you get the knowledge you need alongside the practical know how to design antennas that are integrated into such structures aircrafts or skyscrapers

Adaptive Antennas and Receivers Melvin M. Weiner, 2018-10-08 In our modern age of remote sensing wireless communication and the nearly endless list of other antenna based applications complex problems require increasingly sophisticated solutions Conventional antenna systems are no longer suited to high noise or low signal applications such as intrusion detection Detailing highly effective approaches to non Gaussian weak signal detection *Adaptive Antennas and Receivers* provides an authoritative introduction to state of the art research on the modeling testing and application of these technologies Edited by innovative researcher and eminent expert Melvin M Weiner this book is the first to integrate three advanced approaches to non Gaussian weak signal detection into a single reference homogeneous partitioning of the surveillance volume adaptive antennas and adaptive receivers Comprising self contained chapters contributed by renowned experts such as Donald D Weiner and Ronald Fante each chapter explores the techniques theoretical basis and applications of the approach under discussion The book considers signal detection in the presence of external noise such as clutter residue interference atmospheric noise jammers external thermal noise in vivo surrounding tissue and camouflaging material making it ideal for use across a broad spectrum of applications This authoritative reference supplies more than 750 figures and tables 1460 equations and 640 references *Adaptive Antennas and Receivers* is an ideal resource for improving performance in surveillance communication navigation artificial intelligence computer tomography neuroscience and intrusion detection systems to name only a few

Optimised Radar Processors Alfonso Farina, 1987 Annotation The first volume in a new series Contributed papers give a theory of radar signal processing

at a level accessible and useful to practicing radar engineers concerned with design and analysis No index Annotation c 2003
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Enlarged and revised second edition Modern direction finders capable of measuring elevation angles as well as azimuth
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methods of analysis *The Record of the IEEE ... International Radar Conference* ,1990 *Electromagnetic Radiation from
Cylindrical Structures* James R. Wait,1988 A reprint of a book published 30 years ago by Pergamon and authored by a
pioneer in the field gives a brief review of basic work in the field and a comprehensive theoretical treatment of slots on
cylindrical surfaces including circular cylinders wedges cylindrically tipped wedges elliptic cylinde *ICASSP 86* ,1986
 Proceedings of the Indian National Science Academy Indian National Science Academy,2001 *Alta frequenza* ,1984
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