Radar Systems, Peak Detection and Tracking

Michael Kolawole
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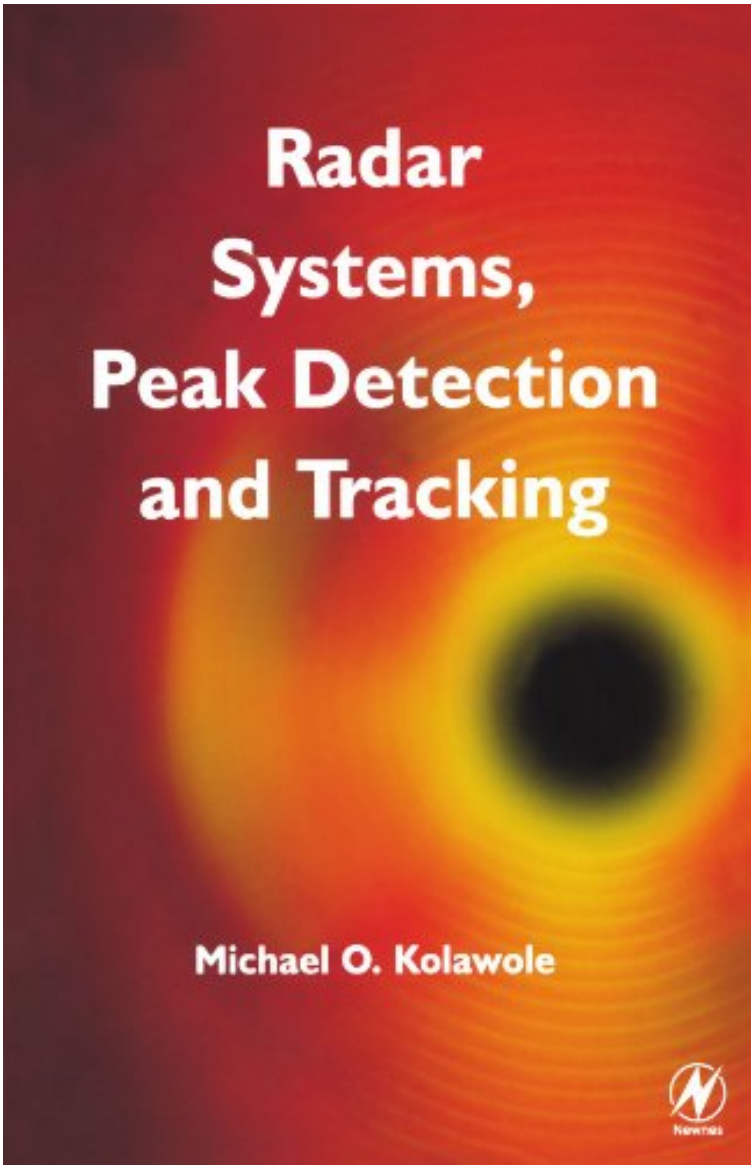

#7812484 in Books Michael Kolawole 2003-04-14Original language:EnglishPDF # 1 9.30 x .88 x 6.00l, 1.34 #File Name: 0750657731400 pagesRadar Systems Peak Detection and Tracking | File size: 77.Mb

Michael Kolawole : Radar Systems, Peak Detection and Tracking before purchasing it in order to gage whether or not it would be worth my time, and all praised Radar Systems, Peak Detection and Tracking:

1 of 1 people found the following review helpful. Attempt to cover too many topics in too little spaceBy G. ChastainI purchased this book at a discount from a used seller out of curiosity. I like to see viewpoints of different authors on subjects of interest. I have to say that this is a book that attempts to cover too many topics in too little space.On the

back cover it states that "Michael Kolawole has provided a unique introduction to radar systems and tracking that meets the requirements of radar and communications engineers and students for a text that covers tracking, signal processing and HF radar systems as well as the standard material covered by the classic radar texts.""[A] unique introduction" is correct. It is, at times, difficult to determine the intended audience. Is it someone trying to start learning (i.e. be "introduced" to radars) or a more advanced student attempting to learn about signal processing? And I do not think that a "communications engineer" would find this useful at all. As stated in the paragraph above from the back cover, this book bills itself as an "introduction to radar systems". The first chapter of the book is on Fourier analysis, discrete Fourier transform and Fast Fourier transform, among other "useful functions". A quick search on will alert the newcomer to radar that there are entire volumes on these subjects. And yet, this has been condensed to a single chapter. Again, the first chapter in a book billed as an "introduction to radar systems".The topics of signal processing, peak detection and tracking are also subjects that require much more detail than is provided in this text.The book also occasionally introduces radar-specific terminology without defining the terms or what they mean.The one positive thing that I can say about this book is Part II which contains two chapters on the Ionosphere and HF Skywave Radar. These topics are discussed in more detail than I've seen in other texts so these may be of value to the reader if this subject area is of interest. However, I wouldn't recommend the book based on those two chapters alone.If you are someone who needs to learn about radar systems, how they work and how they are used, this is NOT the text for you. You will be left with far more questions than answers and, I suspect, a great deal of frustration. If I was not already very familiar with radars and radar theory before attempting to read this text, I would have become frustrated, disenchanted and determined to walk away and never have anything to do with radar again. Further, if you are familiar with radar and want to expand your knowledge of signal processing, detection, tracking, et cetera, this is NOT the text for you. There are far better texts available.If you need to gain a sound introduction to radar, I recommend the following:Introduction to Radar Systems (The book you might see on everyone's desk at work.)Radar: Principles, Technology, Applications (An EXCELLENT text that should not be overlooked.)If you need to gain additional knowledge about the types of radar commonly used in defense applications, I recommend the following:Phased-Array Radar Design: Application of Radar FundamentalsMultifunction Array Radar (Artech House Radar Library)If you wish to gain more knowledge of how radar is used to perform target recognition/classification/identification, I recommend the following:Introduction to Radar Target Recognition (Radar, Sonar Navigation)If you have obtained a sound foundation of knowledge in radar (from texts such as those I have recommended above) and wish to gain an understanding of radar signal processing, I recommend the following excellent text:Fundamentals of Radar Signal Processing

As well as being fully up-to-date, this book provides wider subject coverage than many other radar books. The inclusion of a chapter on Skywave Radar, and full consideration of HF / OTH issues makes this book especially relevant for communications engineers and the defence sector. * Explains key theory and mathematics from square one, using case studies where relevant* Designed so that mathematical sections can be skipped with no loss of continuity by those needing only a qualitative understanding* Theoretical content, presented alongside applications, and working examples, make the book suitable to students or others new to the subject as well as a professional reference

* Explains key t heory and mathematics from square one, using case studies where relevant* Designed as a reference text for professional engineers and a course text for advanced students* Includes full coverage of HF / OTH radar systemsFrom the Back CoverMichael Kolawole has provided a unique introduction to radar systems and tracking that meets the requirements of radar and communications engineers and students for a text that covers tracking, signal processing and HF radar systems as well as the standard material covered by the classic radar texts. The author's approach is strongly applications-based with key mathematical techniques introduced in context, and case studies provided whenever they are appropriate. By including the fundamentals as well as more advanced techniques, Kolawole has produced a work that will provide the information engineers really need to know, and check up on. The text is also designed so that mathematical sections can be skipped with no loss of continuity by those needing only a qualitative understanding. As well as being fully up-to-date, this book provides wider subject coverage than many other radar books. The inclusion of a chapter on Skywave Radar, and full consideration of HF / OTH issues makes this book especially relevant for communications engineers and the defence sector.Excerpt. Reprinted by permission. All rights reserved.A comprehensive reference text for radar and communications engineers and students, with cutting-edge coverage of HF / OTH systems.