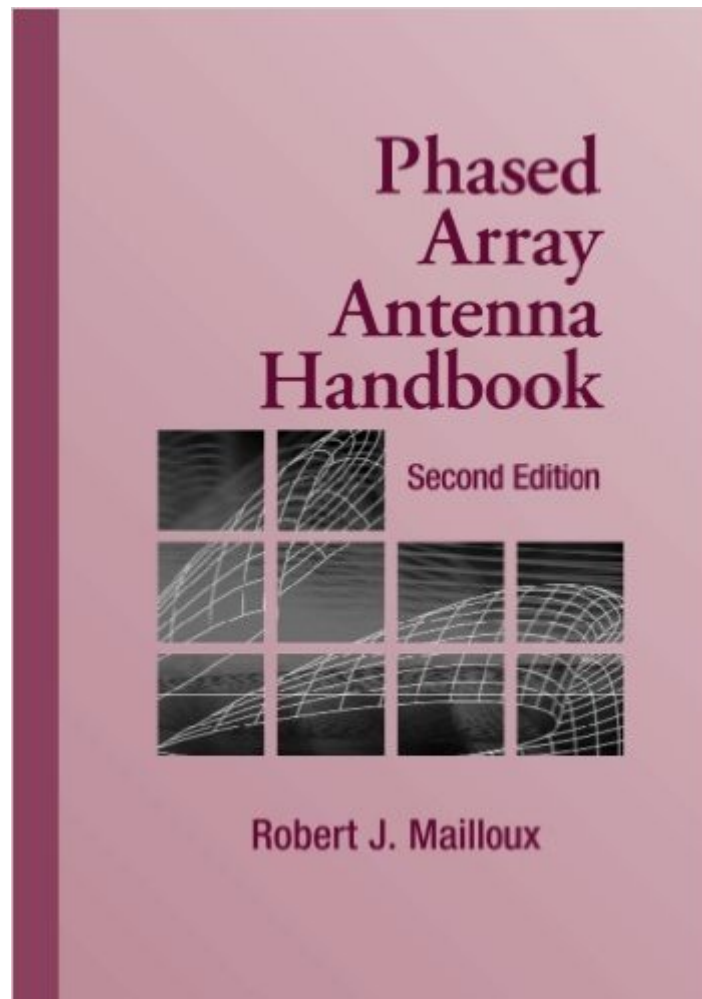


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# Phased Array Antenna Handbook, Second Edition (Artech House Antennas And Propagation Library)



## Synopsis

This newly revised edition of the Artech House classic, *Phased Array Antenna Handbook*, offers the most up-to-date and broadest view of array antennas and systems. You find complete design details that allow you to size an array system with speed and confidence. The second edition offers you a wealth of new material, including a detailed treatment of antenna system noise, sections on antenna pattern synthesis, developments in subarray technology, and in-depth information on array architecture and components. Moreover, you find expanded coverage of systems aspects of arrays for radar and communications. Supported with over 350 equations and more than 270 illustrations, this practical book helps you evaluate basic antenna parameters such as gain, sidelobe levels, and noise. You learn how to compute antenna system noise, design subarray geometries for given bandwidth, scan and sidelobe constraints, and choose array illumination tapers for given sidelobe levels.

## Book Information

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## Customer Reviews

After reading the ludicrous comments in "THE BEST IN ANTENNA INSTALLATION", I felt like writing a review. The "Phased Array Antenna Handbook, 2nd Edition" by Robert Mailloux, is an excellent book on theory and architectures of phased arrays. It is up-to-date, well written and contains a balanced mix of text, equations, figures and references. It also provides a good overview

and thorough discussion of phased array architectures, refraining from using a case study approach. The book contains eight chapters: 1. Phased Arrays in Radar and Communication Systems 2. Pattern Characteristics of Linear and Planar Arrays 3. Pattern Synthesis for Linear and Planar Arrays 4. Patterns of Non-planar Arrays 5. Elements for Phased Arrays 6. Summary of Element Pattern and Mutual Impedance Effects 7. Array Error Effects 8. Special Array Feeds for Limited Field-of-View and Wideband Arrays. Although, the material of chapter 1, 2, 3 and 5 is covered in basic antenna textbooks, I learned quite a few things because it is written from a radar designer's perspective. (I completed prior course work in antennas and studied the book "Antenna Theory, Analysis and Design" by Balanis.) Over time, I also bought the books "Practical Phased Array Antenna Systems" by Brookner and "Phased Array Antennas" by Hansen, but they are less up-to-date and less accessible. Other books on phased arrays generally do not offer much more in-depth treatment of phased arrays than basic antenna textbooks.

Contrary to the previous reviewer's belief, this text has nothing to do with "installation" of "satellite dishes"... The subject of this book is phased array antenna design... It does a reasonably decent job... It's nicely focused on its subject... As always, where Artech published books are concerned, it's a bit overpriced for what it provides, but it's still a reasonably good buy... (Handy man???)

I work for a company that builds phased arrays. This is one of the standard references that we use. I like Hansen's book too, but this one is much better.

this book completely tells you everything about all types of antennas and satellite dishes too!!!! It won't lie and tell you it's easy to do, because it's definitely not. But you will feel confident with this book. Kind of like a "handy man to go".

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