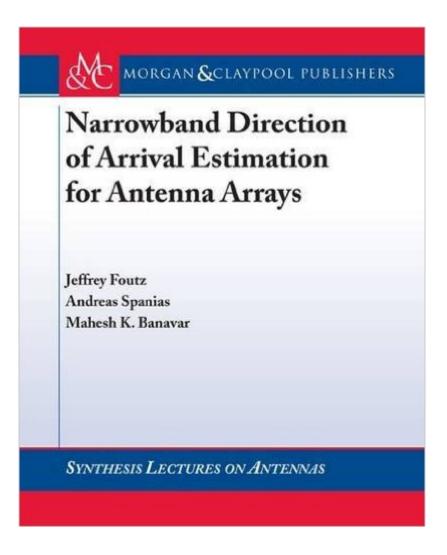
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# Narrowband Direction Of Arrival Estimation For Antenna Arrays (Synthesis Lectures On Antennas)





## Synopsis

This book provides an introduction to narrowband array signal processing, classical and subspace-based direction of arrival (DOA) estimation with an extensive discussion on adaptive direction of arrival algorithms. The book begins with a presentation of the basic theory, equations, and data models of narrowband arrays. It then discusses basic beamforming methods and describes how they relate to DOA estimation. Several of the most common classical and subspace-based direction of arrival methods are discussed. The book concludes with an introduction to subspace tracking and shows how subspace tracking algorithms can be used to form an adaptive DOA estimator. Simulation software and additional bibliography are given at the end of the book. Table of Contents: Introduction / Background on Array Processing / Nonadaptive Direction of Arrival Estimation / Adaptive Direction of Arrival Estimation / Appendix

### **Book Information**

Series: Synthesis Lectures on Antennas Paperback: 82 pages Publisher: Morgan and Claypool Publishers (July 29, 2008) Language: English ISBN-10: 1598296507 ISBN-13: 978-1598296501 Product Dimensions: 7.5 x 0.2 x 9.2 inches Shipping Weight: 7.5 ounces (View shipping rates and policies) Average Customer Review: 4.5 out of 5 stars Â See all reviews (2 customer reviews) Best Sellers Rank: #1,346,062 in Books (See Top 100 in Books) #43 in Books > Engineering & Transportation > Engineering > Civil & Environmental > Environmental > Insecticides & Pesticides #45 in Books > Engineering & Transportation > Engineering > Telecommunications & Sensors > Antennas #4034 in Books > Computers & Technology > Networking & Cloud Computing > Internet, Groupware, & Telecommunications

## **Customer Reviews**

This a great book for direction finding if you already havea good grasp on the under lying theory. It is a recipe book. I goes through each step including matlab examples of multiple techniques. It also gives comparisons of the different techniques. For the price it is a must buy.

From beginning to end - this was a fascinating look at the world of attennas. Jeff's ability to draw the

reader in and hold their attention is masterful. I look forward to the sequel.

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