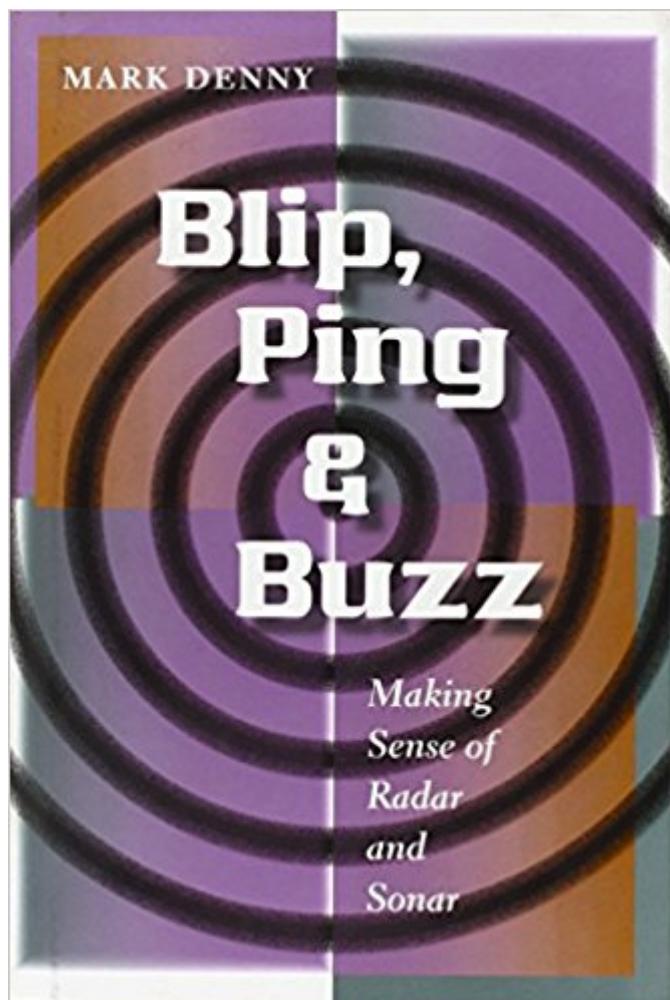


The book was found

Blip, Ping, And Buzz: Making Sense Of Radar And Sonar



Synopsis

Have you ever wondered how stealth planes achieve "invisibility," how sunken ships are found, or how fishermen track schools of fish in vast expanses of ocean? Radar and sonar echolocationâ a simple matter of sending, receiving, and processing signals. Weaving history with simple science, Mark Denny deftly reveals the world of radar and sonar to the curious reader, technology buff, and expert alike. He begins with an early history of the Chain Home radar system used during World War II and then provides accessible and engaging explanations of the physics that make signal processing possible. Basic diagrams and formulas show how electromagnetic and sound waves are transmitted, received, and converted into images, allowing you to literally see in the dark. A section on bioacoustic echolocation, with a focus on the superior sonar systems of bats and whales and a discussion of the advanced technology of next-generation airborne signal processors, opens the imagination to fascinating possibilities for the future.

Book Information

Hardcover: 288 pages

Publisher: Johns Hopkins University Press; 1 edition (September 12, 2007)

Language: English

ISBN-10: 0801886651

ISBN-13: 978-0801886652

Product Dimensions: 6 x 0.9 x 9 inches

Shipping Weight: 1.2 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 starsÂ See all reviewsÂ (6 customer reviews)

Best Sellers Rank: #474,033 in Books (See Top 100 in Books) #26 inÂ Books > Engineering & Transportation > Engineering > Telecommunications & Sensors > Radar #79 inÂ Books > Science & Math > Physics > Applied #102 inÂ Books > Science & Math > Earth Sciences > Geography > Information Systems

Customer Reviews

This was a very entertaining and enlightening book to read. This goes well beyond the "a wave goes out, reflects and comes back" explanation of radar and sonar. In fact, looking at the Wikipedia entry for Radar, you get an outline of the radar subjects in this book. But this book will be more fun and will explain far better what those words mean. You will learn some of the language of signal processing and have it well illustrated in text and simple figures. He does sonar as well, and the wonderful MB800 signal processor seems to be a favorite. That last part may sound dull, but trust

me, it is not! Denny does some history, most notably of the British Chain Home radar that helped win the Battle of Britain. He also has a nice section on electronic warfare, with a history of the back and forth between the British and the Germans in World War II. If you've wondered about the side-scan sonar images in Bob Ballard's stories of hunting for ships, there is a readable description of how that works. I'll say that it will help you if you read the technical notes at the end of the book. You won't be faced with pages and pages of algebra or a slew of acronyms. Just very good writing

Books on technical subjects can be broadly divided into three main categories: (i) very basic in its descriptions with many historical and biographical snippets but with no mathematics or formulas, (ii) significantly more advanced in technical content with formulas - a possible supplement to a textbook on the subject, and (iii) very advanced such as a textbook or a research paper. I would place this book in the second category. The author's expertise in this field is very obvious through the clarity with which the principles behind radar and sonar are explained. Technical notes at the back of the book, 23 of them, provide more in-depth information for the interested reader on certain technical details. Remote sensing by bats, dolphins and whales is also discussed. The writing style is clear, friendly, authoritative, very witty - a most pleasant feature in a technical book, and quite accessible, although some passages need serious concentration. I learned quite a bit from reading this book but I would benefit even more from re-reading certain sections since this subject, at this level of technical detail, is so new to me. This book would likely of most interest to science buffs.

This is a great introduction to the subject of remote sensing. It is such a big topic, but this book does an excellent job of giving a complete overview with a good amount of scientific detail. I feel like I am in a good place to dive into the areas of the subject relevant to my interests and I was just flailing around the topic before this book.

[Download to continue reading...](#)

Blip, Ping, and Buzz: Making Sense of Radar and Sonar Introduction to Radar Target Recognition (Radar, Sonar & Navigation) Soap Making: 365 Days of Soap Making (Soap Making, Soap Making Books, Soap Making for Beginners, Soap Making Guide, Soap Making Recipes, Soap Making Supplies): Soap Making Recipes for 365 Days Radar Equations for Modern Radar (Artech House Radar) Multiple-Target Tracking with Radar Applications (Artech House Radar Library) (Artech House Radar Library (Hardcover)) Strapdown Inertial Navigation Technology (IEE Radar, Sonar, Navigation and Avionics Series) Stimson's Introduction to Airborne Radar (Electromagnetics and Radar) Police Radar Basics: Everything Every Driver, and the Police, should know about Traffic

Speed Radar Angle of Arrival Estimation Using Radar Interferometry (Electromagnetics and Radar) Sizzling Chops and Devilish Spins: Ping-Pong and the Art of Staying Alive Jewelry Making: Jewelry Making Instructions to Easily Create Beautiful Pendants, Bracelets, Earrings, and Necklaces (Jewelry Making Books, jewelry making for dummies, jewelry making tools) Jewelry Making: 33 Tips and Advices For Making Unique Earrings (jewelry making, jewelry making books, jewelry making kits) Buzz: A Graphic Reality Check for Teens Dealing With Drugs and Alcohol (FlipSwitch) The Zen of Social Media Marketing: An Easier Way to Build Credibility, Generate Buzz, and Increase Revenue The Beauty Buzz: No More Beauty B.S. Chart Sense for Writing: Over 70 Common Sense Charts with Tips and Strategies to Teach 3-8 Writing Chart Sense: Common Sense Charts to Teach 3-8 Informational Text and Literature SONAR X3 Power!: The Comprehensive Guide Probing the Ocean for Submarines: A History of the AN/SQS-26 Long Range, Echo-Ranging Sonar Todo Tiene Su Tiempo: Tiempo De Llorar, Tiempo De Reir, Tiempo De Sonar Y Tiempo De Pensar (Coleccion Cuba Y Sus Jueces) (Spanish Edition)

[Dmca](#)