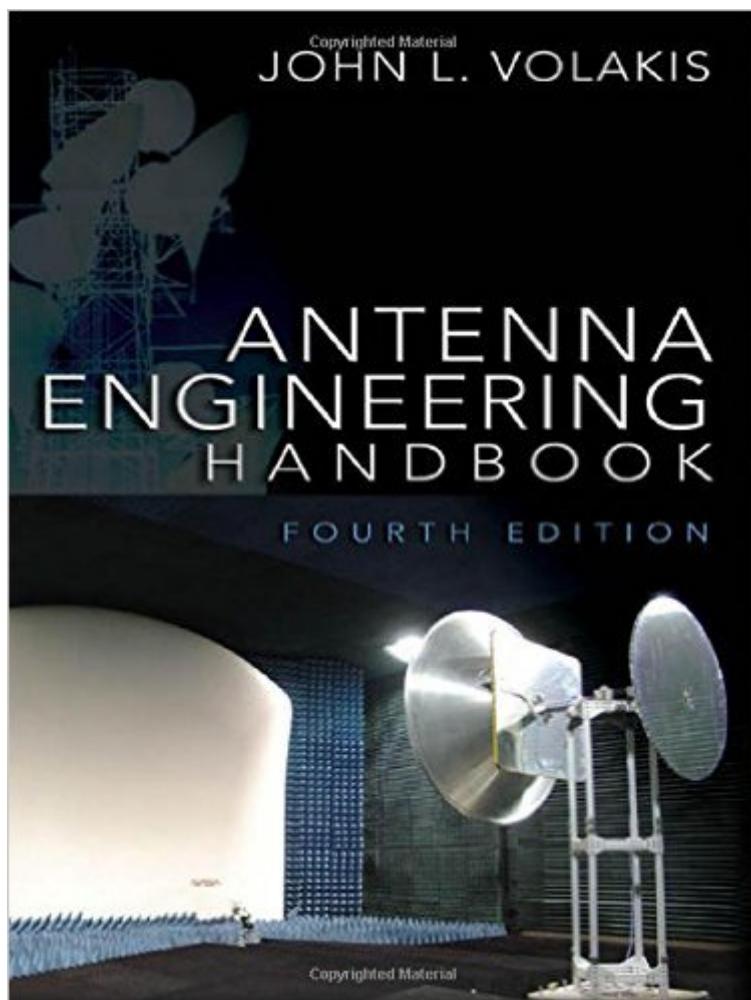


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Antenna Engineering Handbook, Fourth Edition



Synopsis

The *Antenna Engineering Handbook* • fully updated to provide state-of-the-art coverage in antenna design and applications Edited by John L. Volakis, one of the world's leading authorities in antenna engineering, this trusted resource covers all the classic antenna types plus many new types and designs used in communications systems, satellites, radars, and emerging applications from WLAN to automotive systems to biomedical to smart antennas. You will also find expert discussion of topics critical to successful antenna design and engineering, such as measurement techniques and computational methods, a materials guide, wave propagation basics, microwave circuits, and matching techniques, as well as diversity and MIMO propagation models, frequency selective surfaces, and metamaterials. Packed with 1,500 illustrations, the 4th Edition of *Antenna Engineering Handbook* presents: Step-by-step guidance on most antennas (modern and classic) 59 chapters with 21 new chapters and 38 fully updated chapters from the previous edition Contributions from over 80 well-known antenna experts Full-color insert illustrating many commercial and military antennas Get Quick Access to All of Today's Cutting-Edge Antennas • Printed and Conformal Antennas • Wideband Patch Antennas • Wideband Arrays • Leaky-Wave Antennas • EBG Antennas • UWB Antennas and Arrays • Portable TV Antennas • Reconfigurable Antennas • Active Antennas • Millimeter Wave and TeraHertz Antennas • Fractal Antennas • Handset and Terminal Antennas • Biomedical Antennas • ECM and ESM antennas • Dielectric Resonator Antennas • Lens Antennas • Radiometer Antennas • Satellite Antennas • Reflector and Earth Station Antennas • and Dozens More!

Book Information

Hardcover: 1872 pages

Publisher: McGraw-Hill Education; 4 edition (June 28, 2007)

Language: English

ISBN-10: 0071475745

ISBN-13: 978-0071475747

Product Dimensions: 6.3 x 2.8 x 9.3 inches

Shipping Weight: 5.1 pounds (View shipping rates and policies)

Average Customer Review: 4.8 out of 5 stars • See all reviews (5 customer reviews)

Best Sellers Rank: #195,593 in Books (See Top 100 in Books) #4 in Books > Engineering & Transportation > Engineering > Telecommunications & Sensors > Antennas #59 in Books > Science & Math > Physics > Electromagnetism > Electricity #557 in Books > Computers &

Customer Reviews

I should qualify my review by saying that I am not an electrical engineer, nor skilled in advanced math. I bought the book because it dealt with some topics that I have not found addressed anywhere else, and wanted to get some answers. It did answer my questions, but with some difficulty because the topics are rightfully complex. In one or two instances I found that the treatment of a topic was not as thorough as I would like. For example, when discussing helical antennas, the lion's share goes to axial mode antennas, and normal mode seems to be a relative after thought. Of course, helical mode is more common so this does make a certain sense for most people. Even in those cases where my math skills are not as high as assumed, I did get valuable information from the text through the clear writing and excellent diagrams. I would expect this book is, or should be, on the book shelf of anyone serious about antenna design.

The breadth of topics contained in the Antenna Engineering Handbook is impressive. By virtue of the sheer size of the volume, each topic is covered in detail by an expert in the specific discipline. Mr. Volakis does a good job of developing a formalism in the first chapter, complete with the requisite discussion of Maxwell's Equations and their consequences. The first chapter's rigor gives way to much more applied and empirical discussions in chapters 2-59, each with enough granularity to get the interested party off in the right direction. Highly recommended.

A very good reference work, covering virtually all types of antennas. This volume is a refreshed version of what earned a "classic" reputation. The author/editor of the original, Dr Henry Jasik (now deceased) was a personal friend of mine, and at Henry's request, I authored the chapters on circularly polarized radar antennas, published in the first three editions. Naturally, I read the similar chapter in this edition, too, to which I did not contribute. This edition retains the wonderful encyclopedic breadth of the earlier editions, and retains the quality which was the hallmark of the earlier editions. If you are professionally active in antenna design/development, this work clearly merits a place on your bookshelf! Go for it!

Its an excellant reference/text/design book for students, teachers and professional engineers. A welcome addition for every Antenna-Engineer's personal library.

Good

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