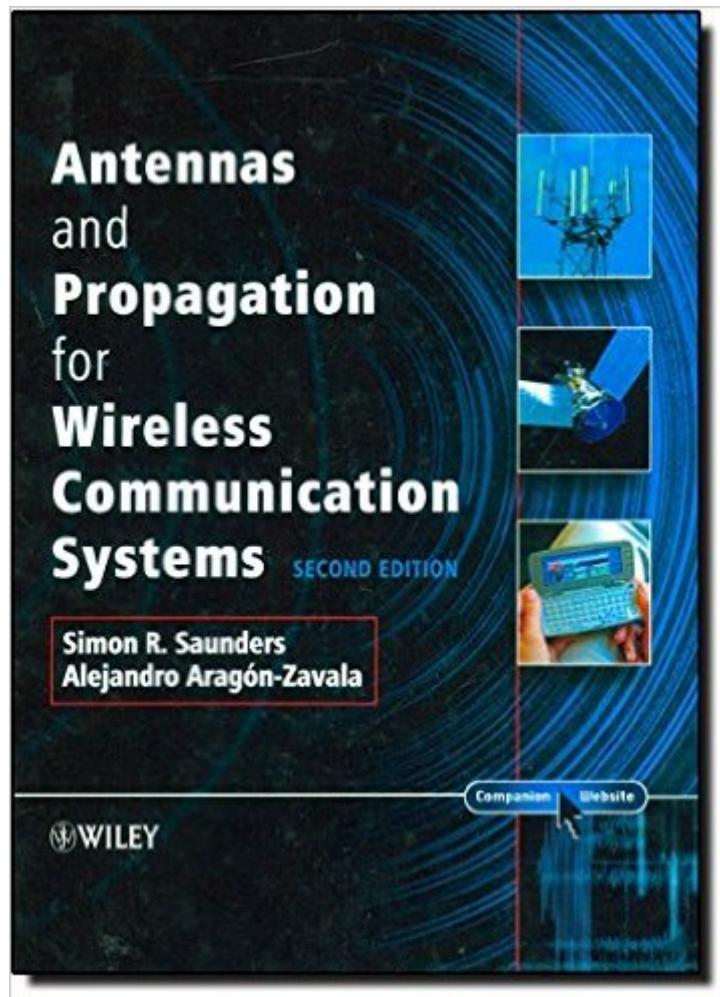


The book was found

Antennas And Propagation For Wireless Communication Systems: 2nd Edition



Synopsis

Antennas and propagation are of fundamental importance to the coverage, capacity and quality of all wireless communication systems. This book provides a solid grounding in antennas and propagation, covering terrestrial and satellite radio systems in both mobile and fixed contexts. Building on the highly successful first edition, this fully updated text features significant new material and brand new exercises and supplementary materials to support course tutors. A vital source of information for practising and aspiring wireless communication engineers as well as for students at postgraduate and senior undergraduate levels, this book provides a fundamental grounding in the principles of antennas and propagation without excessive recourse to mathematics. It also equips the reader with practical prediction techniques for the design and analysis of a very wide range of common wireless communication systems. Including: Overview of the fundamental electromagnetic principles underlying propagation and antennas. Basic concepts of antennas and their application to specific wireless systems. Propagation measurement, modelling and prediction for fixed links, macrocells, microcells, picocells and megacells Narrowband and wideband channel modelling and the effect of the channel on communication system performance. Methods that overcome and transform channel impairments to enhance performance using diversity, adaptive antennas and equalisers. Key second edition updates: New chapters on Antennas for Mobile Systems and Channel Measurements for Mobile Radio Systems. Coverage of new technologies, including MIMO antenna systems, Ultra Wideband (UWB) and the OFDM technology used in Wi-Fi and WiMax systems. Many new propagation models for macrocells, microcells and picocells. Fully revised and expanded end-of-chapter exercises. The Solutions Manual can be requested from http://www.wiley.com/go/saunders_antennas_2e

Book Information

Hardcover: 546 pages

Publisher: Wiley; 2 edition (May 7, 2007)

Language: English

ISBN-10: 0470848790

ISBN-13: 978-0470848791

Product Dimensions: 7.8 x 1.5 x 9.4 inches

Shipping Weight: 2.9 pounds (View shipping rates and policies)

Average Customer Review: 3.1 out of 5 starsÂ See all reviewsÂ (8 customer reviews)

Best Sellers Rank: #1,649,557 in Books (See Top 100 in Books) #57 inÂ Books > Engineering &

Transportation > Engineering > Telecommunications & Sensors > Antennas #3476 in Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics #5001 in Books > Computers & Technology > Networking & Cloud Computing > Internet, Groupware, & Telecommunications

Customer Reviews

This book reviews antenna and propagation theory which is covered well elsewhere in the public output of others, but with a slant from a practitioner in the modern field of mobile and cellnet communications. If you want up-to-date information on antennas for mobiles and their interactions with buildings this may be your book.

This book is bad, the topics are not in depth or well explained. Do not think to buy this book, if you are interested in the field of propagation buy "Mobile Radio Propagation Channel".

Note that this review is for the 1st edition of this book (in case they put this review in the reviews for the new edition). The book covers a wide range of topics, almost every topic in wireless communications. However it terribly suffers from big weaknesses. First of all, most of the topics are merely touched, there are no in-depth explanations. It is very sad especially since the book covers a very wide range of topics. Moreover, there are lots of errors. The mathematical equations are not easy to understand and lack the explanations, the typesetting is also strange. Similarly though there are lots of figures which help understanding the concepts, they are not consistent in their look, it seems they have been collected from various places. I hope if these problems are fixed in upcoming editions it can be a better book especially in wireless communications where besides Rappaport's book not many good alternatives are available. Initially I wanted to give it a 2.5 but cannot therefore gave it 3.

A very excellent book of fundamental principles of antennas and propagation. It is easy to read and follow, and is highly recommended for both students and developers who need to recap the fundamentals.

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

Antennas and Propagation for Wireless Communication Systems: 2nd Edition Radiowave Propagation and Smart Antennas for Wireless Communications (The Springer International Series in Engineering and Computer Science) RF Engineering for Wireless Networks: Hardware,

Antennas, and Propagation (Communications Engineering (Paperback)) Hacking: Wireless Hacking, How to Hack Wireless Networks, A Step-by-Step Guide for Beginners (How to Hack, Wireless Hacking, Penetration Testing, Social ... Security, Computer Hacking, Kali Linux) Wireless Hacking: How To Hack Wireless Network (How to Hack, Wireless Hacking, Penetration Testing, Social ... Security, Computer Hacking, Kali Linux) RF Design Guide Systems, Circuits and Equations (Artech House Antennas and Propagation Library) Third-Generation Systems and Intelligent Wireless Networking: Smart Antennas and Adaptive Modulation Phased Array Antenna Handbook, Second Edition (Artech House Antennas and Propagation Library) Antennas and Wave Propagation Antennas and Radio Propagation Microstrip Antenna Design Handbook (Artech House Antennas and Propagation Library) Homemade HF Antennas (Amateur Radio HF Antennas Book 3) Designing and Deploying 802.11 Wireless Networks: A Practical Guide to Implementing 802.11n and 802.11ac Wireless Networks For Enterprise-Based Applications (2nd Edition) (Networking Technology) Smart Antennas for Wireless Communications: With MATLAB (Professional Engineering) Hacking Exposed Wireless, Third Edition: Wireless Security Secrets & Solutions Controller-Based Wireless LAN Fundamentals: An end-to-end reference guide to design, deploy, manage, and secure 802.11 wireless networks Hacking Exposed Wireless: Wireless Security Secrets & Colutions Millimeter-Wave Antennas: Configurations and Applications (Signals and Communication Technology) Building Automation: Communication systems with EIB/KNX, LON and BACnet (Signals and Communication Technology) Intelligent Communication Systems: Toward Constructing Human Friendly Communication Environment

[Dmca](#)