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Chapter 1 : Small Antenna Design - O'Reilly Media

Small Antenna Design describes the theory behind effective small antenna design and give design techniques and examples for small antennas for different operating frequencies. Design techniques are given for the entire radio spectrum, from a very hundred kilohertz to the gigahertz range.

Survey of microwave antenna design problems. Circuit relations, reciprocity theorems. Radiation from current distributions. Wave fronts and rays. Aperture illumination and antenna patterns. Microwave dipole antennas and feeds. Linear array antennas and feeds. Waveguide and horn feeds. Dielectric and metal-plate lenses. Pencil-beam and simple fanned-beam antennas. Antenna measurements techniques and equipment. New features include additional modern material to make the text more exciting and relevant to practicing engineers; new chapters on systems, low-profile elements and base station antennas; organizational changes to improve understanding; more details to selected important topics such as microstrip antennas and arrays; and expanded measurements topic. Zhi Ning Chen Language: Offers a comprehensive and practical reference guide to antenna design and engineering for portable devices Antennas are often the most bulky components in many portable wireless devices such as mobile phones. Whilst the demand for ever smaller and more powerful wireless devices increases, as does the importance of designing and engineering smaller antennas to fit these devices. Antennas for Portable Devices provides a complete and cutting-edge guide to the design and engineering of small antennas for portable electronic devices such as mobile phone handsets, laptop computers, RFID radio frequency identification , microwave thermal therapies devices, wearable devices, and UWB ultra-wideband based consumer devices. The book addresses practical engineering issues that antenna professionals have to deal with. It explains the immediate demands for existing systems; discusses the antenna technology for the latest and emerging applications, and gives comprehensive coverage of hot topics in the wireless industry. Issues including design considerations, engineering design, measurement setup and methodology, and practical applications are all covered in depth. Antennas for Portable Devices: Fourth-generation 4G wireless communications systems are on the horizon, promising to deliver integrated voice, data, and multimedia streaming anywhere, anytime. Antennas are a key aspect of these systems. This book offers engineers comprehensive coverage of the antennas that may be integrated in these complex 4G wireless communications systems. Find Your eBooks Hereâ€¦.

Chapter 2 : How to design small GSM/DCS PCB antenna ?

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Chapter 3 : Small Antenna Design - Knovel

Small loops are discussed in many forms including thick, doughnut, barrel and solenoid formats, contrawound toroids and finally the folded spherical helix. In all cases the math and models are covered thoroughly but the results are tabulated and reviewed so even if one chooses to skim over the math one can still come away with valuable trends.

Chapter 4 : [PDF/ePub Download] small antenna design eBook

on small antenna performance, possible trade-offs, recent developments, detailed design and optimization. Antenna performance is fundamentally a function of size measured in wave-.

Chapter 5 : Small Antenna Design by Douglas Miron | Souq - Egypt

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Unlike other antenna books which are heavily mathematical and theoretical, Douglas Miron keeps mathematics to the absolute minimum required to explain design techniques. Ground planes, essential for operation of many antenna designs, are extensively discussed.

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Chapter 8 : ELECTRICAL ENGINEERING eBOOK

As wireless devices and systems get both smaller and more ubiquitous, the demand for effective but small antennas is rapidly increasing. This book will describe the theory behind effective small antenna design and give design techniques and examples for small antennas for different operating frequencies.

Chapter 9 : Small Antenna Design. Miron, Douglas B. (Newnes,)

High Frequency Design SMALL ANTENNAS Basic Principles of Electrically Small Antennas Miron, Small Antenna Design, Newnes 2. R. Garg, P. Bhartia, Inder Bahl.