

Ansys Hfss User Guide

Practical Antenna Design for Wireless Products Henry Lau
2019-07-31 This comprehensive resource covers both antenna fundamentals and practical implementation strategies, presenting antenna design with optimum performance in actual products and systems. The book helps readers bridge the gap between electromagnetic theory and its application in the design of practical antennas in real products. Practical implementation strategies in products and systems will be addressed in order to design antennas in the context of actual product environments, including PCB layout, component placement and casing design. Practical design examples on wearable electronic products are presented with a systematic approach to designing antennas for actual products. The book introduces antenna fundamentals to provide the basic concepts and necessary mathematics on electromagnetic analysis, followed by advanced antenna elements. The concept of electromagnetic simulation is presented. The advantages and disadvantages of different numerical methods in antenna modeling are also discussed. Several commercial antenna design and simulation tools are introduced, allowing hands-on practice of antenna modeling and simulation.

DESIGN OF TRI-BAND L SHAPED PARASITIC PATCH ANTENNA

Dr G SRIVALLI

Single Flux Quantum Integrated Circuit Design Gleb Krylov 2024-04-15
High efficiency, large scale, stationary computing systems - supercomputers and data centers - are becoming increasingly important due to the movement of data storage and processing onto remote cloud servers. This book is dedicated to a technology particularly appropriate for this application - superconductive electronics, in particular, rapid single flux quantum circuits. The primary purpose of this book is to introduce and systematize recent developments in superconductive

electronics into a cohesive whole to support the further development of large scale computing systems. A brief background into the physics of superconductivity and the operation of common superconductive devices is provided, followed by an introduction into different superconductive logic families, including the logic gates, interconnect, and bias current distribution. Synchronization, fabrication, and electronic design automation methodologies are presented, reviewing both widely established concepts and techniques as well as recent approaches. Issues related to memory, synchronization, interconnects, coupling noise, bias networks, signal interfaces, and deep scaling of superconductive structures and design for testability are described, and models, expressions, circuits, algorithms, and design methodologies are discussed and placed in context. The aim of this book is to provide insight and engineering intuition into the design of large scale digital superconductive circuits and systems.

ANSYS/LS/DYNA User's Guide for Release 5.5 ANSYS, Inc 1998

ANSYS Structural Nonlinearities Swanson Analysis Systems 1994

ANSYS User's Manual 1985

Practical Guide to RF-MEMS Jacopo Iannacci 2013-08-12 Closes the gap between hardcore-theoretical and purely experimental RF-MEMS books. The book covers, from a practical viewpoint, the most critical steps that have to be taken in order to develop novel RF-MEMS device concepts. Prototypical RF-MEMS devices, both including lumped components and complex networks, are presented at the beginning of the book as reference examples, and these are then discussed from different perspectives with regard to design, simulation, packaging, testing, and post-fabrication modeling. Theoretical concepts are introduced when necessary to complement the practical hints given for all RF-MEMS development stages. Provides researchers and engineers with invaluable practical hints on how to develop novel RF-MEMS device concepts

Covers all critical steps, dealing with design, simulation, optimization, characterization and fabrication of MEMS for radio-frequency applications. Addresses frequently disregarded issues, explicitly treating the hard to predict interplay between the three-dimensional device structure and its electromagnetic functionality. Bridges theory and experiment, fundamental concepts are introduced with the application in mind, and simulation results are validated against experimental results. Appeals to the practice-oriented R&D reader: design and simulation examples are based on widely known software packages such as ANSYS and the hardware description language Verilog.

Co-simulations of Microwave Circuits and High-Frequency

Electromagnetic Fields Mei Song Tong 2024-07-03 This book aims to provide many advanced application topics for microwave circuits and high-frequency electromagnetic (EM) fields by using advanced design system (ADS) and high-frequency structure simulator (HFSS) as simulation platforms. In particular, it contains the latest multidisciplinary co-simulation guidance on the design of relevant components and devices. Currently, the circuit/field design and performance analysis and optimization strongly rely on various kinds of robust electronic design automation (EDA) software. RF/microwave engineers must grasp two or more types of related simulation design software. ADS by Keysight and HFSS by Ansys are the representative for circuit simulations and for field and structural simulations of microwave devices, respectively. At present, these two types of software are widely used in enterprises, universities, and research institutions. The main purpose of this book is to enable readers, who are interested in microwave engineering and applied electromagnetics, to master the applications of these two tools. It also helps readers expand their knowledge boundaries behind those types of software and deepen their understanding of developing interdisciplinary technologies by co-simulations. The book is divided into three parts. The first part introduces the two latest versions of ADS and HFSS and helps readers better understand the basic principles and latest functions better. It also advises how to choose appropriate simulation tools for different problems. The second part mainly describes co-

simulations for high-frequency EM fields, microwave circuits, antenna designs, EM compatibility (EMC), and thermal and structural analyses. It provides guides and advices on performing co-simulations by ADS and HFSS incorporated with other types of software, respectively. The last part narrates the automation interfaces and script programming methods for co-simulations. It primarily deals with the Advanced Extension Language (AEL), Python Data Link (PDL), and MATLAB interface in ADS. For HFSS, it discusses VBScript, IronPython scripting, and Application Programming Interface (APIs) based on MATLAB. Each topic contains practical examples to help readers understand so that they can gain a solid knowledge and skills regarding automated interfaces and scripting methods based on these kinds of software. Concisely written in combination with practical examples, this book is very suitable as a textbook in introductory courses on microwave circuit and EM simulations and also as a supplementary textbook in many courses on electronics, microwave engineering, communication engineering, and related fields. As well, it can serve as a reference book for microwave engineers and researchers.

EDN 2009

ANSYS Solid Modeling Swanson Analysis Systems 1994

ANSYS Introduction to ANSYS Swanson Analysis Systems 1993

Compact Models and Measurement Techniques for High-Speed

Interconnects Rohit Sharma 2012-02-17 Compact Models and Measurement Techniques for High-Speed Interconnects provides detailed analysis of issues related to high-speed interconnects from the perspective of modeling approaches and measurement techniques. Particular focus is laid on the unified approach (variational method combined with the transverse transmission line technique) to develop efficient compact models for planar interconnects. This book will give a qualitative summary of the various reported modeling techniques and approaches and will help researchers and graduate students with deeper insights into interconnect models in particular and interconnect in general. Time domain and frequency domain measurement techniques and simulation methodology are also explained in this book.

ANSYS Dynamics Swanson Analysis Systems 1993

Antenna Engineering Handbook John Volakis 2018-11-05 The gold-standard reference on the design and application of classic and modern antennas—fully updated to reflect the latest advances and technologies This new edition of the “bible of antenna engineering” has been updated to provide start-to-finish coverage of the latest innovations in antenna design and application. You will find in-depth discussion of antennas used in modern communication systems, mobile and personal wireless technologies, satellites, radar deployments, flexible electronics, and other emerging technologies, including 5G, terahertz, and wearable electronics. Antenna Engineering Handbook, Fifth Edition, is bolstered by real-world examples, hundreds of illustrations, and an emphasis on the practical aspects of antennas. Featuring 60 chapters and contributions from more than 80 renowned experts, this acclaimed resource is edited by one of the world’s leading antenna authorities. This edition features all of the classic antenna types, plus new and emerging designs, with 13 all-new chapters and important updates to nearly all chapters from past editions. Antenna Engineering Handbook, Fifth Edition, clearly explains cutting-edge applications in WLANs, automotive systems, PDAs, and handheld devices, making it an indispensable companion for today’s antenna practitioners and developers. Coverage includes:

- Antenna basics and classic antennas
- Design approaches for antennas and arrays
- Wideband and multiband antennas
- Antennas for mobile devices and PDAs, automotive applications, and aircraft
- Base station and smart antennas
- Beamforming and 5G antennas
- Millimeter-wave and terahertz antennas
- Flexible, wearable, thin film, origami, dielectric, and on-chip antennas
- MIMO antennas and phased arrays
- Direction-finding and GPS antennas
- Active antennas
- Low-profile wideband antennas
- Nanoantennas
- Reflectors and other satellite and radio-telescope antennas
- Low-frequency, HF, VHF, UHF, ECM, and ESM antennas
- Impedance-matching techniques and material characteristics
- Metastructured and frequency selective surfaces
- Propagation and guided structures
- Computational techniques and toolsets
- Indoor and outdoor measurements

ANSYS Substructuring 1993

ANSYS/LS-DYNA User's Guide 2002

Ansyz Workbench Software Tutorial with Multimedia CD Fereydoon Dadkhah 2009 ANSYS Workbench Release 12 Software Tutorial with MultiMedia CD is directed toward using finite element analysis to solve engineering problems. Unlike most textbooks which focus solely on teaching the theory of finite element analysis or tutorials that only illustrate the steps that must be followed to operate a finite element program, ANSYS Workbench Software Tutorial with MultiMedia CD integrates both. This textbook and CD are aimed at the student or practitioner who wishes to begin making use of this powerful software tool. The primary purpose of this tutorial is to introduce new users to the ANSYS Workbench software, by illustrating how it can be used to solve a variety of problems. To help new users begin to understand how good finite element models are built, this tutorial takes the approach that FEA results should always be compared with other data results. In several chapters, the finite element tutorial problem is compared with manual calculations so that the reader can compare and contrast the finite element results with the manual solution. Most of the examples and some of the exercises make reference to existing analytical solutions In addition to the step-by-step tutorials, introductory material is provided that covers the capabilities and limitations of the different element and solution types. The majority of topics and examples presented are oriented to stress analysis, with the exception of natural frequency analysis in chapter 11, and heat transfer in chapter 12.

Introduction to ANSYS, FLOTRAN 1994

ANSYS User's Manual, Revision 5.2 P. C. Kohnke 1995

ANSYS User's Manual for Revision 5.1 Swanson Analysis Systems, Inc 1994

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