

Yagi Antenna With Hfss

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Design and Applications of Active Integrated Antennas
Advances in Signal and Data Processing
Applications of Mathematics in Science and Technology
Proceedings of International Conference on Wireless Communication
Advances in Electrical and Computer Technologies
Recent Trends in Communication and Intelligent Systems
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Eleventh International Conference on Antennas and Propagation
IEEE International Symposium on Phased Array Systems and Technology
Japanese Journal of Applied Physics
Mechanical Engineering, Materials and Energy
Millimeter Wave Imaging Technologies for Plasma Diagnostics on Superconducting Tokomak
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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

this comprehensive new resource guides professionals in the latest methods used when designing active integrated antennas aia for wireless communication devices for various standards this book provides complete design procedures for the various elements of such active integrated antennas such as the matching network the amplifier active element as well as the antenna this book offers insight into how active integration and co design between the active components amplifier oscillator mixer diodes and the antenna can provide better power transfer higher gains increased efficiencies switched beam patterns and smaller design footprints it introduces the co design approach of active integrated antennas and its superior performance over conventional methods complete design examples are given of active integrated antenna systems for narrow and wideband applications as well as for multiple input multiple output mimo systems readers find the latest design methods for narrow and broadband rf matching networks this book provides a complete listing of performance metrics for active integrated antennas the book serves as a complete reference and design guide in the area of aia

this book presents the select peer reviewed proceedings of the international conference on signal and data processing icsdp 2019 it examines and deliberates on the recent progresses in the areas of communication and signal processing the book includes topics on the recent advances in the areas of wired and wireless communication low complexity architecture of mimo receivers applications on wireless sensor networks and internet of things signal processing image processing and computer vision vlsi embedded systems cognitive networks power electronics and automation mechatronics based applications systems and control cognitive science and machine intelligence information security and big data the contents of this book will be useful for beginners researchers and professionals interested in the area of communication signal processing and allied fields

the conference dealt with one of the most important problems faced in international development in pure mathematics and applied mathematics development in engineering such as cryptography cyber security network operations research heat equation and so forth the aim of the conference was to provide a platform for

researchers engineers academicians as well as industrial professionals to present their research results and development activities in pure and apply mathematics and its applied technology it provided opportunities for the delegates to exchange new ideas and application experiences to establish business or research relations and to find global partners for future collaboration

this book comprises selected papers presented at the international conference on wireless communication icwicom 2021 which is organized by the department of electronics and telecommunication engineering d j sanghvi college of engineering mumbai india during october 8 9 2021 the book focuses on specific topics of wireless communication like signal and image processing applicable to wireless domains networking microwave and antenna design and telemedicine systems covering three main areas antenna design networking signal processing embedded systems and internet of things iot it is a valuable resource for postgraduate and doctoral students

this book comprises a selection of papers presented at the sixth international conference on advances in electrical and computer technologies icaect 2024 it compiles groundbreaking research and advancements in the field of electrical engineering electronics engineering computer engineering and communication technologies the book touches upon a wide array of topics including smart grids soft computing techniques in power systems smart energy management systems and power electronics under the electrical engineering track and biomedical engineering antennas and waveguides image and signal processing and broad band and mobile communication under the electronics engineering track with special emphasis on computer engineering this book highlights emerging trends in computer vision pattern recognition cloud computing pervasive computing intelligent systems artificial intelligence neural network and fuzzy logic machine learning deep learning data science video processing and wireless communication this is a valuable resource for students researchers and engineers within the field of innovative research and practical applications of electrical and computer technologies

the book presents best selected research papers presented at the fourth international conference on recent trends in communication and intelligent systems icrtcis 2023 organized by arya college of engineering and it jaipur on april 28 29 2023 it discusses the latest technologies in communication and intelligent systems covering various areas of communication engineering such as signal processing vlsi design embedded systems wireless communications and electronics and communications in general featuring work by leading researchers and technocrats the book serves as a valuable reference resource for young researchers and academics as well as practitioners in industry

selected peer reviewed papers from the 2011 international conference on mechanical engineering materials and energy icmeme 2011 october 19 21 2011 dalian china

modern metamaterials is relatively new less than two years old and evolving rapidly it has captured the interest of researchers because theoretically predicted exciting fundamental electromagnetic phenomena can now be realized experimentally and novel devices are feasible this is the critical resource sought by readers

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