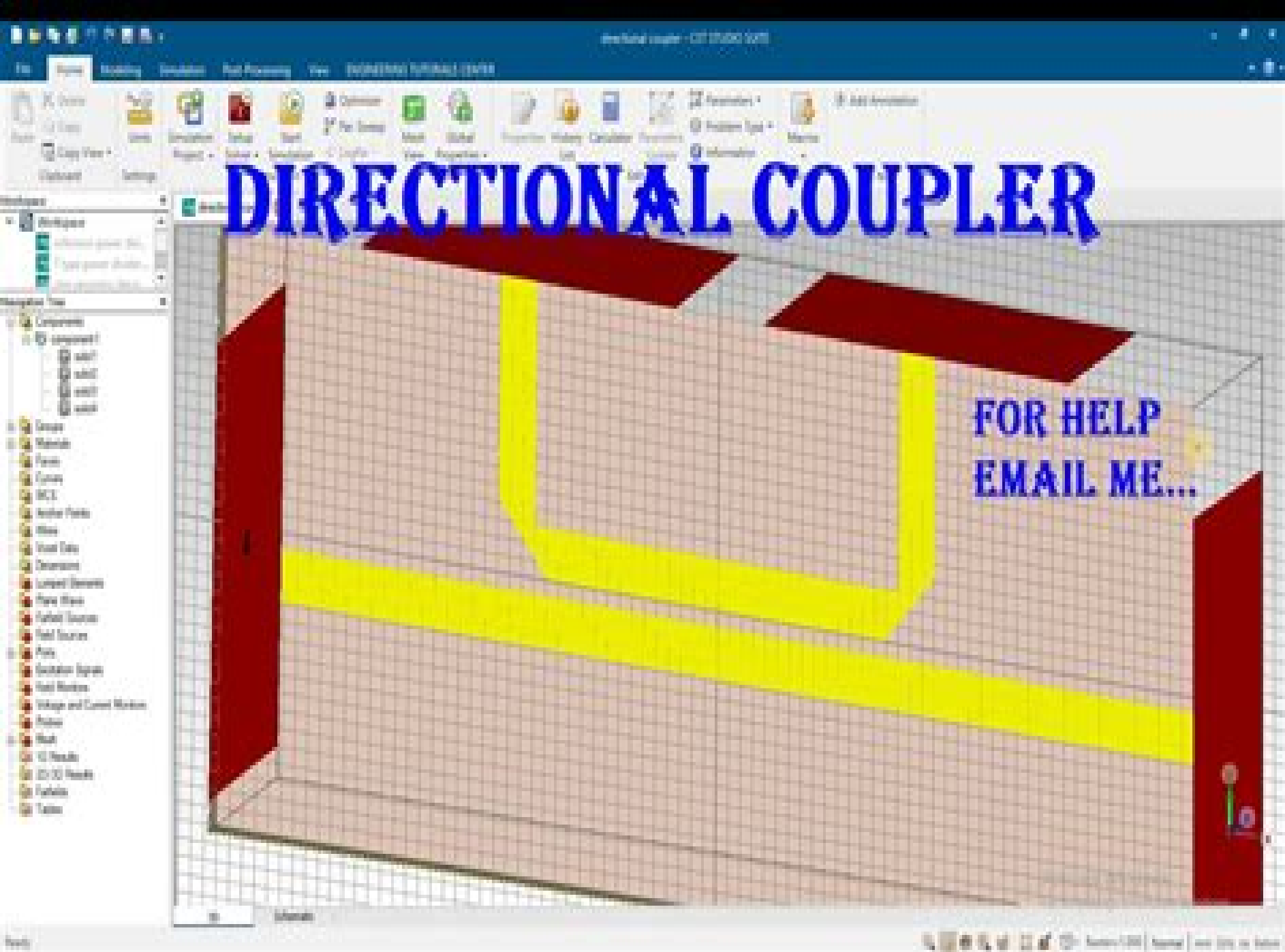




Waveguide Directional Coupler Design Hfss

Boon Kok Tan



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Network Security and Communication Engineering Kennis Chan,2015-07-06 The conference on network security and communication engineering is meant to serve as a forum for exchanging new developments and research progresss between scholars scientists and engineers all over the world and providing a unique opportunity to exchange information to present the latest results as well as to review the relevant issues on Soft Computing: Theories and Applications Millie Pant,Kanad Ray,Tarun K. Sharma,Sanyog Rawat,Anirban Bandyopadhyay,2017-11-23 This book focuses on soft computing and its applications to solve real life problems occurring in different domains ranging from medical and health care supply chain management and image processing to cryptanalysis It presents the proceedings of International Conference on Soft Computing Theories and Applications SoCTA 2016 offering significant insights into soft computing for teachers and researchers and inspiring more and more researchers to work in the field of soft computing The term soft computing represents an umbrella term for computational techniques like fuzzy logic neural networks and nature inspired algorithms In the past few decades there has been an exponential rise in the application of soft computing techniques for solving complex and intricate problems arising in different spheres of life The versatility of these techniques has made them a favorite among scientists and researchers working in diverse areas SoCTA is the first international conference being organized at Amity University Rajasthan AUR Jaipur The objective of SoCTA 2016 is to provide a common platform to researchers academicians scientists and industrialists working in the area of soft computing to share and exchange their views and ideas on the theory and application of soft computing techniques in multi disciplinary areas The aim of the conference is to bring together young and experienced researchers academicians scientists and industrialists for the exchange of knowledge SoCTA especially encourages the young researchers at the beginning of their career to participate in this conference and present their work on this platform **Solutions and Applications of Scattering, Propagation, Radiation and Emission of**

Electromagnetic Waves Ahmed Kishk,2012-11-14 In this book a wide range of different topics related to analytical as well as numerical solutions of problems related to scattering propagation radiation and emission in different medium are discussed Design of several devices and their measurements aspects are introduced Topics related to microwave region as well as Terahertz and quasi optical region are considered Bi isotropic metamaterial in optical region is investigated Interesting numerical methods in frequency domain and time domain for scattering radiation forward as well as reverse problems and microwave imaging are summarized Therefore the book will satisfy different tastes for engineers interested for example in microwave engineering antennas and numerical methods **Development of Coherent Detector**

Technologies for Sub-Millimetre Wave Astronomy Observations Boon Kok Tan,2015-09-15 The thesis describes the development of receiver technologies for sub millimetre astronomy instruments focusing on high performance coherent cryogenic detectors operating close to the superconductor gap frequency The mixer chip which comprises the SIS devices

fed by a unilateral finline and matching planar circuits was fabricated on 15 micron silicon substrate using the recently developed Silicon On Insulator SOI technology This offered broadband IF and RF performance with fully integrated on chip planar circuits resulting in an easily reproducible mixer chip and a simple mixer block An important consequence of this design is that it can be extended to the supra THz region and making the fabrication of multi pixel heterodyne arrays feasible The extension of the operation of major telescopes such as ALMA APEX and the GLT from single pixel to large format arrays is the subject of extensive research at present time since it will allow fast mapping combined with high resolution of the submillimetre sky The technology described in this thesis makes a major contribution to this effort

Issues in Nuclear and Plasma Science and Technology: 2011 Edition ,2012-01-09 Issues in Nuclear and Plasma Science and Technology 2011 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Nuclear and Plasma Science and Technology The editors have built Issues in Nuclear and Plasma Science and Technology 2011 Edition on the vast information databases of ScholarlyNews You can expect the information about Nuclear and Plasma Science and Technology in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Nuclear and Plasma Science and Technology 2011 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

IEICE Transactions on Electronics ,2005 *High Energy Density and High Power RF* Steven H. Gold,Gregory S. Nusinovich,2003-12-04 This is the sixth in a series of international workshops on high power and high energy density microwave devices for accelerator plasma physics and defense applications Past workshops were held in Dubna Montauk Hayama Pajaro Dunes and Snowbird The theme is research and development of techniques to increase microwave energy density and peak power in active and passive microwave devices and components ranging from L band to W band The scope of this workshop has now been broadened to include radar and high power microwave HPM systems space exploration neutron sources and even plasma heating and current drive in controlled thermonuclear fusion research

Wideband, Multiband, and Smart Antenna Systems Mohammad Abdul Matin,2021-09-21 This book provides current R it is written for graduate students researchers academics and industry practitioners who want to improve their understanding in the current research trends in design analysis of broadband multiband and smart antennas for wireless applications

Applications of Advanced Electromagnetics Guennadi A. Kouzaev,2012-10-30 This text directed to the microwave engineers and Master and PhD students is on the use of electromagnetics to the development and design of advanced integrated components distinguished by their extended field of applications The results of hundreds of authors scattered in numerous journals and conference proceedings are carefully reviewed and classed Several chapters are to

refresh the knowledge of readers in advanced electromagnetics New techniques are represented by compact electromagnetic quantum equations which can be used in modeling of microwave quantum integrated circuits of future In addition a topological method to the boundary value problem analysis is considered with the results and examples One extended chapter is for the development and design of integrated components for extended bandwidth applications and the technology and electromagnetic issues of silicon integrated transmission lines transitions filters power dividers directional couplers etc are considered Novel prospective interconnects based on different physical effects are reviewed as well The ideas of topology is applicable to the electromagnetic signaling and computing when the vector field maps can carry discrete information and this area and the results in topological signaling obtained by different authors are analyzed including the recently designed predicate logic processor operating spatially represented signal units The book is rich of practical examples illustrations and references and useful for the specialists working at the edge of contemporary technology and electromagnetics **Smart**

Sensors, Actuators, and MEMS ,2003 *Handbook of Metamaterial-Derived Frequency Selective Surfaces* Shiv Narayan,Arun Kesavan,2023-01-02 This volume provides a consolidated reference for the applications of frequency selective surfaces FSS technology in different sectors such as wireless communications smart buildings microwave and medical industries It covers all aspects of metamaterial FSS technology starting from theoretical simulation fabrication and measurement all the way to actual hardware implementation Also included are in depth discussions on the design methodologies of metamaterial FSS structures and their practical implementation in devices and components It will be of interest to researchers and engineers working on developing metamaterial FSS technology Microwave Journal ,2008

Intense Microwave Pulses ,1994 **Proceedings of the 1993 Particle Accelerator Conference** ,1993

Conference Digest : Seventeenth International Conference on Infrared and Millimeter Waves Richard J. Temkin,1992

Digest IEEE Antennas and Propagation Society. International Symposium,2004 *Conference Proceedings* ,1993

Journal of Zhejiang University ,2006 Dissertation Abstracts International ,1996 **Directional Coupler Design**

Using Coplanar Waveguide Earl W. Williams (CAPT, USAF.),1973

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