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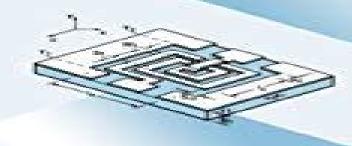
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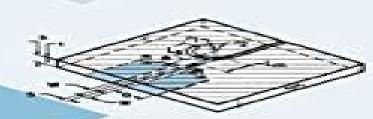
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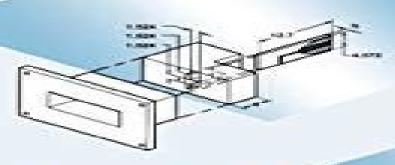
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introduction of cutting edge topics enhancing the existing content With these comprehensive updates Microstrip Lines and Slotlines Fourth Edition ensures that readers have access to the most relevant and cutting edge information in the field of printed transmission lines This book is a must have for professionals and researchers dedicated to advancing their knowledge and expertise in this dynamic area Microwave Electronics Giovanni Ghione, Marco Pirola, 2017-11-09 Drawing on over twenty years of teaching experience this comprehensive yet self contained text provides an in depth introduction to the field of integrated microwave electronics Ideal for a first course on the subject it covers essential topics such as passive components and transistors linear low noise and power amplifiers and microwave measurements An entire chapter is devoted to CAD techniques for analysis and design covering examples of easy to medium difficulty for both linear and non linear subsystems and supported online by ADS and AWR project files More advanced topics are also covered providing an up to date overview of compound semiconductor technologies and treatment of electromagnetic issues and models Readers can test their knowledge with end of chapter questions and numerical problems and solutions and lecture slides are available online for instructors This is essential reading for graduate and senior undergraduate students taking courses in microwave radio frequency and high frequency electronics as well as professional microwave engineers **Antennas and Propagation for Body-Centric Wireless Communications, Second Edition** Peter S. Hall, Yang Hao, 2012 Now in a newly updated and revised edition this timely resource provides you with complete and current details on the theory design and applications of wireless antennas for on body electronic systems The Second Edition offers readers brand new material on advances in physical phantom design and production recent developments in simulation methods and numerical phantoms descriptions of methods for simulation of moving bodies and the use of the body as a transmission channel You also find a completely revised chapter on channel characterization and antenna design at microwave frequencies This cutting edge volume brings you the state of the art in existing applications like Bluetooth headsets together with detailed treatment of techniques tools and challenges in developing on body antennas for an array of medical emergency response law enforcement personal entertainment and military applications on the horizon The book briefs you on energy propagation around and into the body and how to estimate performance of on body wireless links and then dives into the nuts and bolts of designing antenna systems that deliver the goods It covers on body communication channels at microwave frequency bands and at low frequency bands as well as ultra wideband systems for WPANs and WBANs You get details on body centric UWB antennas and channels as well as advances in wearable mobile EBG and smart fabric antennas for cellular and WLAN communications Chapters on telemedicine applications such as remote diagnoses and implantable medical devices cover crucial propagation issues and other obstacles that need to be addressed Rounding out the coverage is a section on antenna design for body sensor networks and their emerging military and space applications Packed with hands on guidance from noted experts this volume will be indispensable for your efforts in designing and improving body centric communication

systems Antenna Fundamentals for Legacy Mobile Applications and Beyond Issa Elfergani, Abubakar Sadiq Hussaini, Jonathan Rodriguez, Raed Abd-Alhameed, 2017-10-03 This book highlights technology trends and challenges that trace the evolution of antenna design starting from 3rd generation phones and moving towards the latest release of LTE A The authors explore how the simple monopole and whip antenna from the GSM years have evolved towards what we have today an antenna design that is compact multi band in nature and caters to multiple elements on the same patch to provide high throughput connectivity The scope of the book targets a broad range of subjects including the microstrip antenna PIFA antenna and the monopole antenna to be used for different applications over three different mobile generations Beyond that the authors take a step into the future and look at antenna requirements for 5G communications which already has the 5G drive in place with prominent scenarios and use cases emerging They examine these and put in place the challenges that lie ahead for antenna design particularly in mm Wave design The book provides a reference for practicing engineers and under post graduate students working in this field Radio Frequency Micromachined Switches, Switching Networks, and Phase Shifters Shiban Kishen Koul, Sukomal Dey, 2019-05-03 Radio Frequency Micromachined Switches Switching Networks and Phase Shifters discusses radio frequency microelectromechanical systems RF MEMS based control components and will be useful for researchers and R D engineers It offers an in depth study performance analysis and extensive characterization on micromachined switches and phase shifters The reader will learn about basic design methodology and techniques to carry out extensive measurements on MEMS switches and phase shifters which include electrical mechanical power handling linearity temperature stability reliability and radio frequency performance Practical examples included in the book will help readers to build high performance systems subsystems using micromachined circuits Key Features Provides simple design methodology of MEMS switches and switching networks including SPST to SP16T switches Gives an in depth performance study of micromachined phase shifters Detailed study on reliability and power handling capability of RF MEMS switches and phase shifters presented Proposes reconfigurable micromachined phase shifters Verifies a variety of MEMS switches and phase shifters experimentally Microwave Ring Circuits and Related Structures Kai Chang, Lung-Hwa Hsieh, 2004-05-06 Publisher Description Antenna Engineering Handbook, Fourth Edition John Volakis, 2007-06-08 The bible of antenna engineering fully updated to provide state of the art coverage in antenna design and applications Edited by John L Volakis one of the world's leading authorities in antenna engineering this trusted resource covers all the classic antenna types plus many new types and designs used in communications systems satellites radars and emerging applications from WLAN to automotive systems to biomedical to smart antennas You will also find expert discussion of topics critical to successful antenna design and engineering such as measurement techniques and computational methods a materials guide wave propagation basics microwave circuits and matching techniques as well as diversity and MIMO propagation models frequency selective surfaces and metamaterials Packed with 1 500 illustrations the

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