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this book gathers selected high quality research papers presented at international conference

on mobile computing and sustainable informatics icmcsi 2022 organized by pulchowk campus institute of engineering tribhuvan university nepal during january 11 12 2023 the book discusses recent developments in mobile communication technologies ranging from mobile edge computing devices to personalized embedded and sustainable applications the book covers vital topics like mobile networks computing models algorithms sustainable models and advanced informatics that support the symbiosis of mobile computing and sustainable informatics

this thesis deals with the development of semi analytical models for the electrical behavior of vias and traces in chip packages and printed circuit boards a framework for automated simulation of multilayer structures is also proposed the validation and evaluation of the models are thoroughly addressed with several test structures and application studies it is shown that the models can provide good results up to 40 ghz whereas the numerical efficiency is at least two orders of magnitude higher in comparison to general purpose numerical methods

the industrial electronics handbook second edition combines traditional and newer more specialized knowledge that will help industrial electronics engineers develop practical solutions for the design and implementation of high power applications embracing the broad technological scope of the field this collection explores fundamental areas including analog and digital circuits electronics electromagnetic machines signal processing and industrial control and communications systems it also facilitates the use of intelligent systems such as neural networks fuzzy systems and evolutionary methods in terms of a hierarchical structure that makes factory control and supervision more efficient by addressing the needs of all production components enhancing its value this fully updated collection presents research and global trends as published in the ieee transactions on industrial electronics journal one of the largest and most respected publications in the field fundamentals of industrial electronics covers the essential areas that form the basis for the field this volume presents the basic knowledge that can be applied to the other sections of the handbook topics covered include circuits and signals devices digital circuits digital and analog signal processing electromagnetics other volumes in the set power electronics and motor drives control and mechatronics industrial communication systems intelligent systems

industrial electronics systems govern so many different functions that vary in complexity from the operation of relatively simple applications such as electric motors to that of more

complicated machines and systems including robots and entire fabrication processes the industrial electronics handbook second edition combines traditional and new

this book presents and discusses alternatives to ordinary transmission lines for the design and implementation of advanced rf microwave components in planar technology this book is devoted to the analysis study and applications of artificial transmission lines mostly implemented by means of a host line conveniently modified e g with modulation of transverse dimensions with etched patterns in the metallic layers etc or with reactive loading in order to achieve novel device functionalities superior performance and or reduced size the author begins with an introductory chapter dedicated to the fundamentals of planar transmission lines chapter 2 is focused on artificial transmission lines based on periodic structures including non uniform transmission lines and reactively loaded lines and provides a comprehensive analysis of the coupled mode theory chapters 3 and 4 are dedicated to artificial transmission lines inspired by metamaterials or based on metamaterial concepts these chapters include the main practical implementations of such lines and their circuit models and a wide overview of their rf microwave applications including passive and active circuits and antennas chapter 5 focuses on reconfigurable devices based on tunable artificial lines and on non linear transmission lines the chapter also introduces several materials and components to achieve tuning including diode varactors rf mems ferroelectrics and liquid crystals finally chapter 6 covers other advanced transmission lines and wave guiding structures such as electroinductive magnetoinductive wave lines common mode suppressed balanced lines lattice network artificial lines and substrate integrated waveguides artificial transmission lines for rf and microwave applications provides an in depth analysis and discussion of artificial transmission lines including design guidelines that can be useful to researchers engineers and students

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based on bahl and bhartia s popular 1980 classic microstrip antennas this all new book provides the detail antenna engineers and designers need to design any type of microstrip antenna after addressing essential microchip antenna theory the authors highlight current design and engineering practices emphasizing the most pressing issues in this area including broadbanding circular polarization and active microstrip antennas in particular special design

challenges ranging from dual polarization high bandwidth and surface wave mitigation to choosing the proper substrate and shaping an antenna to achieve desired results are all covered

this manual includes hundreds of problem and solutions of varying degrees of difficulty for student review the solutions are completely worked out to facilitate self study

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