

Foundations For Microwave Engineering Collin Solution Manual

Designing Microwave Sensors for Glucose Concentration Detection in Aqueous and Biological Solutions
Everyday Engineering Magazine
Rock Mechanics in Civil and Environmental Engineering
Chemical Engineering and Mining Review
Engineering and Mining Journal
Foundations for Microwave Engineering
Circuit Oriented Electromagnetic Modeling Using the PEEC Techniques
Electromagnetic Theory; Problems and Solutions
The Engineer
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Marvyn Scudder Manual of Extinct Or Obsolete Companies
Journal of the Engineering Institute of Canada
The Chemical Age Year Book
Engineering News
Mechanics of Unsaturated Geomaterials
Carlos G. Juan Jian Zhao
Robert E. Collin
Albert Ruehli
Keith Foster
John Collin
Geniesse
Henry Julius Salomon
Sand Lyesse Laloui

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this book presents a comprehensive study covering the design and application of microwave sensors for glucose concentration detection with a special focus on glucose concentration tracking in watery and biological solutions this book is based on the idea that changes in the glucose concentration provoke variations in the dielectric permittivity of the medium sensors whose electrical response is sensitive to the dielectric permittivity of the surrounding media should be able to perform as glucose concentration trackers at first this book offers an in depth study of the dielectric permittivity of water glucose solutions at concentrations relevant for diabetes purposes in turn it presents guidelines for designing suitable microwave resonators which are then tested in both water glucose solutions and multi component human blood plasma solutions for their detection ability and sensitivities finally a portable version is developed and tested on a large number of individuals in a real clinical scenario all in all the book reports on a comprehensive study on glucose monitoring devices based on microwave sensors it covers in depth the theoretical background provides extensive design guidelines to maximize sensitivity and validates a portable device for applications in clinical settings

during the last two decades rock mechanics in europe has been undergoing some major transformation the reduction of mining activities in europe affects heavily on rock mechanics teaching and research at universities and institutes at the same time new emerging activities notably underground infrastructure construction geothermal energy develo

an instructor s manual presenting detailed solutions to all the problems in the book is available upon request from the wiley makerting department

bridges the gap between electromagnetics and circuits by addressing electrometric modeling em using the partial element equivalent circuit peec method this book provides intuitive solutions to electromagnetic problems by using the partial element equivalent circuit peec method this book begins with an introduction to circuit analysis techniques laws and frequency and time domain analyses the authors also treat maxwell s equations capacitance computations and inductance computations through the lens of the peec method next readers learn to build peec models in various forms equivalent

circuit models non orthogonal peec models skin effect models peec models for dielectrics incident and radiate field models and scattering peec models the book concludes by considering issues like stability and passivity and includes five appendices some with formulas for partial elements leads readers to the solution of a multitude of practical problems in the areas of signal and power integrity and electromagnetic interference contains fundamentals applications and examples of the peec method includes detailed mathematical derivations circuit oriented electromagnetic modeling using the peec techniques is a reference for students researchers and developers who work on the physical layer modeling of ic interconnects and packaging pcbs and high speed links

vol 7 no 7 july 1924 contains papers prepared by canadian engineers for the first world power conference july 1924

this book provides a sound basis in the challenging area of the mechanics of unsaturated geomaterials the objective is to supply the reader with an exhaustive overview starting from the basics and covering the most recent theories and applications i e natural disasters nuclear waste disposal oil and agriculture productions the presentation of the fundamental concepts is based on an interdisciplinary approach in the areas of soil rock and cement based material mechanics

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