Circuits Ulaby 2nd Edition

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this completely revised and expanded edition of an artech house classic polarization in electromagnetic systems presents the principles of polarization as applied to electromagnetic systems this edition emphasizes the concepts needed for functional aspects of systems calculations and device evaluation readers find up to date coverage of applications in wireless communications the fundamentals of polarization are explained including the principles of wave polarization along with their mathematical representations this book explores polarized partially polarized waves and unpolarized waves the second part of the book addresses applications of polarization to practical systems antenna polarization is covered in detail including omnidirectional directional and broadband antennas with emphasis on antennas for generating linear and circular polarization for each antenna type this book provides detailed coverage of wave interaction with an antenna and dual polarized systems additional topics covered in this edition include propagation through depolarizing media polarization in wireless communication systems including polarization diversity and polarization measurements this hands on resource provides a clear exposition on the understanding of polarization principles and evaluation of the performance of electromagnetic systems

this thoroughly updated and expanded second edition is an authoritative resource on industrial measurement systems and sensors with particular attention given to temperature stress pressure acceleration and liquid flow sensors this edition includes new and expanded chapters on wireless measuring systems and measurement control and diagnostics systems in cars moreover the book introduces new cost effective measurement technology utilizing servers and lan computer networks a topic not covered in any other resource coverage of updated wireless measurement systems and wireless gsm lte

interfacing make this book unique providing in depth practical knowledge professionals learn how to connect an instrument to a computer or tablet while reducing the time for collecting and processing measurement data this hands on reference presents digital temperature sensors demonstrating how to design a monitoring system with multipoint measurements from computer based measuring systems electrical thermometers and pressure sensors to conditioners crate measuring systems and virtual instruments this comprehensive title offers engineers the details they need for their work in the field

covering a wide range of application areas from wireless communications and navigation to sensors and radar this practical resource offers you the first comprehensive multidisciplinary overview of radio engineering you learn important techniques to help you with the generation control detection and utilization of radio waves and find detailed guidance in radio link amplifier and antenna design the book approaches relevant problems from both electromagnetic theory based on maxwellocos equations and circuit theory based on kirchoffocos and ohmocos laws including brief introductions to each theory

principles of synthetic aperture radar imaging a system simulation approach demonstrates the use of image simulation for sar it covers the various applications of sar including feature extraction target classification and change detection provides a complete understanding of sar principles and illustrates the complete chain of a sar operati

an integrated approach to environmental data management is necessitated by the complexity of the environmental problems that need to be addresses coupled with the interdisciplinary approach that needs to be adopted to solve them agenda 21 of the rio environmental conference mandated international programmes and organizations to take steps to develop common data and information management plans and steps have been taken in this direction the key word that defines the framework of the present book is integration the book establishes the basics of integrated approaches and covers environmental data management systems within that framework covering all aspects of data management from objectives and constraints design of data collection networks statistical and physical sampling remote sensing and gis databases reliability of data data analysis and the transformation of data into information

this book provides comprehensive coverage of remote sensing techniques and their application in soil science a clear step by

step approach to the various aspects ensures that the reader will gain a good grasp of the subject so that he can apply the techniques to his own field of study the book opens with a thorough introduction to the physical aspects of electromagnetic radiation and the technical aspects of remote sensing and image processing this is followed by a discussion of the methods for interpreting remote sensing data and their application to soils vegetation and land as a whole as the interpretation of soil conditions is based on many aspects i e soil surface vegetation land use land form the scope of the book is correspondingly broad it will therefore provide much useful information for students and scientists in soil science geography geology hydrology ecology agriculture and civil engineering

fully updated hydrology principles methods and applications thoroughly revised for the first time in 50 years this industry standard resource features chapter contributions from a who s who of international hydrology experts compiled by a colleague of the late dr chow chow s handbook of applied hydrology second edition covers scientific and engineering fundamentals and presents all new methods processes and technologies complete details are provided for the full range of ecosystems and models advanced chapters look to the future of hydrology including climate change impacts extraterrestrial water social hydrology and water security chow s handbook of applied hydrology second edition covers the fundamentals of hydrology data collection and processing hydrology methods hydrologic processes and modeling sediment and pollutant transport hydrometeorologic and hydrologic extremes systems hydrology hydrology of large river and lake basins applications and design the future of hydrology

the most complete current guide to smart antenna design and performance featuring new coverage of reconfigurable antennas vector antennas and direction finding antennas this up to date resource offers a rigorous review of the basic electromagnetic principles that drive smart antenna design and deployment case studies and worked examples using matlab are provided end of chapter assignments reinforce the concepts presented thoroughly revised to reflect recent developments and the latest technologies this is a comprehensive reference for all professionals students and researchers in the field of smart antennas smart antennas with matlab second edition covers fundamentals of electromagnetic fields antenna fundamentals array fundamentals principles of random variables and processes propagation channel characteristics angle of arrival estimation smart antennas direction finding electromagnetic vector sensors smart antenna design and

optimization

a comprehensive introduction to the principles and applications of remote sensing written by contributors actively involved in optical remote sensing research special attention is paid to the interrelationship between land surfaces and the intervening atmosphere focusing specifically on the spectral region of 0 04 to 16 microns this book covers a wide range of techniques and their practical implementations demonstrates how the same basic measurements can be used in several different applications to obtain quantitative measurements

radar scattering and imaging of rough surfaces is an active interdisciplinary area of research with many practical applications in fields such as mineral and resource exploration ocean and physical oceanography military and national defense planetary exploration city planning and land use environmental science and many more by focusing on the most advanced analytical and numerical modeling and describing both forward and inverse modeling radar scattering and imaging of rough surfaces modeling and applications with matlab connects the scattering process to imaging techniques by vivid examples through numerical and experimental demonstrations and provides computer codes and practical uses this book is unique in its simultaneous treatment of radar scattering and imaging key features bridges physical modeling with simulation for resolving radar imaging problems the first comprehensive work to do so provides excellent basic and advanced information for microwave remote sensing professionals in various fields of science and engineering covers most advanced analytical and numerical modeling for both backscattering and bistatic scattering includes matlab codes useful not only for academics but also for radar engineers and scientists to develop tools applicable in different areas of earth studies covering both the theoretical and the practical radar scattering and imaging of rough surfaces modeling and applications with matlab is an invaluable resource for professionals and students using remote sensing to study and explain the earth and its processes university and research institutes electrical and radar engineers remote sensing image users application software developers students and academics alike will benefit from this book the author kun shan chen is an internationally known and respected engineer and scientist and an expert in the field of electromagnetic modeling

keeping abreast of new developments this new edition provides a comprehensive and up to date review of the entire field of

classification methods applied to remotely sensed data it provides seven fully revised chapters and two new chapters covering support vector machines svm and decision trees

in planning a radar system having the proper mathematical modeling of propagation effects clutter and target statistics is essential radar systems principles provides a strong theoretical basis for the myriad of formulas and rules of thumb required for analysis conceptual design and performance evaluation of radar systems mathematical derivations of formulas commonly used by radar engineers are presented with detailed discussions of the assumptions behind these expressions and their ranges of validity these principles are used in a wide range of radar applications radar systems principles makes it easy to understand the steps in calculating various formulas and when and how these formulas are used a set of problems is provided for each chapter enabling you to check your progress in applying the principles discussed in each section of the text there are more than 170 figures illustrating key concepts numerous references to well known books on radar for coverage of practical design issues and other specialized topics are given radar systems principles is an ideal textbook for advanced undergraduates and first year graduate students and also makes an excellent vehicle for self study by engineers wishing to enhance their understanding of radar principles and their implication in actual systems

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