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the classic reference for radar and remote sensing engineers handbook of radar for scattering statistics for terrain has been reissued with updated practical software for modern data analysis applications first published in 1989 this update features a new preface along with three new appendices that explain how to use the new software and graphical user interface python and matlab based software has been utilized so remote sensing and radar engineers can utilize the wealth of statistical data that came with the original book and software this update combines the book and software previously sold separately into a single new product the text first presents detailed examinations of the statistical behavior of speckle when superimposed on nonuniform terrain the handbook of radar scattering statistics for terrain then supports system design and signal processing applications with a complete database of calibrated backscattering coefficients compiled over 30 years the statistical summaries of radar backscatter from terrain offers you over 400 000 data points compiled in tabular format with this text you ll own the most comprehensive database of radar terrain scattering statistics ever compiled derived from measurements made by both airborne and ground based scatterometer systems the database includes information from 114 references the text provides over 60 tables of backscatter data for 9 different surface categories all derived under strict quality criteria rigorous standards for calibration accuracy measurement precision and category identification make the database the most reliable source for scattering statistics ever available this is a signals and systems textbook with a difference engineering applications of signals and systems are integrated into the presentation as equal partners with concepts and mathematical models instead of just presenting the concepts and models and leaving the student to wonder how it all relates to engineering preface 2 10 3 multiple reflection method fundamentals of applied electromagnetics incl cdrom offers the only consolidated reference on radar polarimetry design analysis and application and explains the most recent development in polarization system design and application illustrated with 150 figures 10 tablets and 9 full color sar images for courses in electromagnetics offered in electrical engineering departments and applied physics designed specifically for a one semester em course covering both statics and dynamics the book uses a number of tools to facilitate understanding of em concepts and to demonstrate their relevance to modern technology technology briefs provide overviews of both fundamental and sophisticated technologies including the basic operation of an electromagnet in magnetic recording the invention of the laser and how em laws underlie the operation of many types of sensors bar code readers gps communication satellites and x ray tomography among others a cd rom packed with video presentations and solved problems accompanies the text designed for a course on image processing ip aimed at both graduate students as well as undergraduates in their senior year in any field of engineering this book starts with an overview in chapter 1 of how imaging sensors from cameras to radars to mris and cat form images and then proceeds to cover a wide array of image processing topics the ip topics include image interpolation magnification thumbnails and sharpening edge detection noise filtering de blurring of blurred images supervised and unsupervised learning and image segmentation among many others as a prelude to the chapters focused on image processing chapters 3 12 the book offers in chapter 2 a review of 1 d signals and systems borrowed from our 2018 book signals and systems theory and applications by ulaby and yagle preface for courses in electromagnetics bridging the gap between circuits and electromagnetics widely acclaimed in the field this authoritative text bridges the gap between circuits and electromagnetics material fundamentals of applied electromagnetics begins coverage with transmission lines leading students from familiar concepts into more advanced topics and applications the 8th edition builds on the core content and style of previous editions retaining the student friendly approach and hands on simulation modules that help students develop a deeper understanding of electromagnetic concepts and applications enhanced graphs and illustrations and an expanded scope of topics in the technology briefs establish additional bridges between electromagnetic fundamentals and their countless engineering and scientific applications this title is also available digitally as a stand alone pearson etext this option gives students affordable access to learning materials so they come to class ready to succeed this is a signals and systems textbook with a difference engineering applications of signals and systems are integrated into the presentation as equal partners with concepts and mathematical models instead of just presenting the concepts and models and leaving the student to wonder how it all relates to engineering

preface for one or two semester courses in electromagnetics widely acclaimed both in the u s and abroad this authoritative text bridges the gap between circuits and new electromagnetics material ulaby begins coverage with transmission lines leading students from familiar concepts into more advanced topics and applications maintaining its student friendly approach this revision introduces full color and incorporates feedback from instructors and students for courses in electromagnetics bridging the gap between circuits and electromagnetics widely in the field this authoritative text bridges the gap between circuits and electromagnetics material fundamentals of applied electromagnetics begins coverage with transmission lines leading students from familiar concepts into more advanced topics and applications the 8th edition buildson the core content and style of previous editions retaining the student friendly approach and hands on simulation modules that help students develop a deeper understanding of electromagnetic concepts and applications enhanced graphs and illustrations and an expanded scope of topics in the technology briefs establish additional bridges between electromagnetic fundamentals and their countless engineering and scientific applications includes textbook cd rom engineering signals and systems textbook resources

Handbook of Radar Scattering Statistics for Terrain

2019-06-30

the classic reference for radar and remote sensing engineers handbook of radar for scattering statistics for terrain has been reissued with updated practical software for modern data analysis applications first published in 1989 this update features a new preface along with three new appendices that explain how to use the new software and graphical user interface python and matlab based software has been utilized so remote sensing and radar engineers can utilize the wealth of statistical data that came with the original book and software this update combines the book and software previously sold separately into a single new product the text first presents detailed examinations of the statistical behavior of speckle when superimposed on nonuniform terrain the handbook of radar scattering statistics for terrain then supports system design and signal processing applications with a complete database of calibrated backscattering coefficients compiled over 30 years the statistical summaries of radar backscatter from terrain offers you over 400 000 data points compiled in tabular format with this text you ll own the most comprehensive database of radar terrain scattering statistics ever compiled derived from measurements made by both airborne and ground based scatterometer systems the database includes information from 114 references the text provides over 60 tables of backscatter data for 9 different surface categories all derived under strict quality criteria rigorous standards for calibration accuracy measurement precision and category identification make the database the most reliable source for scattering statistics ever available

Signals & Systems

2018

this is a signals and systems textbook with a difference engineering applications of signals and systems are integrated into the presentation as equal partners with concepts and mathematical models instead of just presenting the concepts and models and leaving the student to wonder how it all relates to engineering preface

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Fundamentals of Applied Electromagnetics

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fundamentals of applied electromagnetics incl cdrom

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offers the only consolidated reference on radar polarimetry design analysis and application and explains the most recent development in polarization system design and application illustrated with 150 figures 10 tablets and 9 full color sar images

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for courses in electromagnetics offered in electrical engineering departments and applied physics designed specifically for a one semester em course covering both statics and dynamics the book uses a number of tools to facilitate understanding of em concepts and to demonstrate their relevance to modern technology technology briefs provide overviews of both fundamental and sophisticated technologies including the basic operation of an electromagnet in magnetic recording the invention of the laser and how em laws underlie the operation of many types of sensors bar code readers gps communication satellites and x ray tomography among others a cd rom packed with video presentations and solved problems accompanies the text

Electromagnetics for Engineers

2005

designed for a course on image processing ip aimed at both graduate students as well as undergraduates in their senior year in any field of engineering this book starts with an overview in chapter 1 of how imaging sensors from cameras to radars to mris and cat form images and then proceeds to cover a wide array of image processing topics the ip topics include image interpolation magnification thumbnails and sharpening edge detection noise filtering de blurring of blurred images supervised and unsupervised learning and image segmentation among many others as a prelude to the chapters focused on image processing chapters 3 12 the book offers in chapter 2 a review of 1 d signals and systems borrowed from our 2018 book signals and systems theory and applications by ulaby and yagle preface

Circuits

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this option gives students affordable access to learning materials so they come to class ready to succeed

Scientific and Technical Aerospace Reports

1969

this is a signals and systems textbook with a difference engineering applications of signals and systems are integrated into the presentation as equal partners with concepts and mathematical models instead of just presenting the concepts and models and leaving the student to wonder how it all relates to engineering preface

Microwave Remote Sensing

1986

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