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Accident Reconstruction: Technology and Animation III.
Information and Communication Theory
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Data Visualization
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Splunk Essentials

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Theory of Adoption Macmillan
Foreword from Arogyaswami Paulraj, Professor (Emeritus), Stanford University (USA) The first book to show how MIMO principles can be implemented in today's mobile broadband networks and components Explains and solves some of the practical difficulties that arise in designing and implementing MIMO systems Both theory and implementation sections are written in the context of the most recent standards: IEEE 802.11n (WiFi); IEEE 802.16 (WIMAX); 4G networks (3GPP/3GPP2, LTE)

Optical WDM Networks Pearson Education

Handbook of Physics is a veritable toolbox for rapid access to a wealth of physics information for everyday use in problem solving, homework, and examinations. This complete reference includes not only the fundamental formulas of physics but also experimental methods used in practice.

Evaluation in Extension John Wiley & Sons

This handbook provides a general description of the different models of political finance regulations and analyses the relationship between party funding and effective democracy. The most important part of the book is an extensive matrix on political finance laws and regulations for about 100 countries. Public funding regulations, ceilings on campaign expenditure, bans on foreign donations and enforcing an agency are some of the issues covered in the study. Includes regional studies and discusses how political funding can affect women

and men differently, and the delicate issue of monitoring, control and enforcement of political finance laws. Data Model Patterns: A Metadata Map Wiley

Traditional database management systems can't handle the demands of managing multimedia data. with the rapid growth of multimedia platforms and the world wide web, database management systems must now process, store, index, and retrieve alphanumeric data, bitmapped and vector-based graphics, and video and audio clips both compressed and uncompressed. The comprehensive, systematic approach of Multimedia Database Management Systems presents you with current and emerging methods for managing the increasing demands of multimedia databases and their inherent design and architecture issues.

Cyber Physical, Computer and Automation System Packt Publishing Ltd

As the janitor in a haunted house, single mom Abby Jenkins has many contacts with the living and the dead in the small Pacific Northwest town of Sunset Cove, which puts her in a perfect position to solve local mysteries. Or so she thinks. Hired to find diamonds hidden in a haunted manor she gets help from a Viking ghost with existential issues. Will she survive? This book contains bad-boy ghosts, mischievous magic, and a woman who knows what she wants in a Viking hayloft.

Fintech with Artificial Intelligence, Big Data, and Blockchain Elsevier

Active learning lessons for mastering DAX Data analysis expressions (DAX) is the formula language of PowerPivot and this book is written to give hands-on practice to anyone who wants to become

competent at writing such formulas. Sample exercises that explain each concept are provided and followed by practice questions and answers to maximize learning and experience with DAX.

WiMAX SC Active Business Development Srl

Gain useful insights from your data using popular data science tools Key FeaturesA one-stop guide to Python libraries such as pandas and NumPyComprehensive coverage of data science operations such as data cleaning and data manipulationChoose scalable learning algorithms for your data science tasksBook Description Fully expanded and upgraded, the latest edition of Python Data Science Essentials will help you succeed in data science operations using the most common Python libraries. This book offers up-to-date insight into the core of Python, including the latest versions of the Jupyter Notebook, NumPy, pandas, and scikit-learn. The book covers detailed examples and large hybrid datasets to help you grasp essential statistical techniques for data collection, data munging and analysis, visualization, and reporting activities. You will also gain an understanding of advanced data science topics such as machine learning algorithms, distributed computing, tuning predictive models, and natural language processing. Furthermore, You'll also be introduced to deep learning and gradient boosting solutions such as XGBoost, LightGBM, and CatBoost. By the end of the book, you will have gained a complete overview of the principal machine learning algorithms, graph analysis techniques, and all the visualization and deployment instruments that make it easier to present your results to an audience of both data science experts

and business users What you will learnSet up your data science toolbox on Windows, Mac, and LinuxUse the core machine learning methods offered by the scikit-learn libraryManipulate, fix, and explore data to solve data science problemsLearn advanced explorative and manipulative techniques to solve data operationsOptimize your machine learning models for optimized performanceExplore and cluster graphs, taking advantage of interconnections and links in your dataWho this book is for If you're a data science entrant, data analyst, or data engineer, this book will help you get ready to tackle real-world data science problems without wasting any time. Basic knowledge of probability/statistics and Python coding experience will assist you in understanding the concepts covered in this book.

Routing Protocols Companion Guide Artech House Computing Library

This book is designed to facilitate a thorough understanding of fundamental principles without requiring readers to memorize an excess of confusing technological details. Rather than focusing on techniques for one particular phase of design, it covers the complete design process, from specification to manufacturing.

The Oliver Wight ABCD Checklist for Operational Excellence Vertical Inc

An important text that offers an in-depth guide to how information theory sets the boundaries for data communication In an accessible and practical style, Information and Communication Theory explores the topic of information theory and includes concrete tools that are appropriate for real-life communication systems. The text investigates the connection between theoretical and practical applications through a wide-

variety of topics including an introduction to the basics of probability theory, information, (lossless) source coding, typical sequences as a central concept, channel coding, continuous random variables, Gaussian channels, discrete input continuous channels, and a brief look at rate distortion theory. The author explains the fundamental theory together with typical compression algorithms and how they are used in reality. He moves on to review source coding and how much a source can be compressed, and also explains algorithms such as the LZ family with applications to e.g. zip or png. In addition to exploring the channel coding theorem, the book includes illustrative examples of codes. This comprehensive text: Provides an adaptive version of Huffman coding that estimates source distribution Contains a series of problems that enhance an understanding of information presented in the text Covers a variety of topics including optimal source coding, channel coding, modulation and much more Includes appendices that explore probability distributions and the sampling theorem Written for graduate and undergraduate students studying information theory, as well as professional engineers, master's students, Information and Communication Theory offers an introduction to how information theory sets the boundaries for data communication.

Broadcast Engineer's Reference Book
Springer Science & Business Media

The@ first graduate-level textbook to focus on fundamental aspects of numerical methods for stochastic computations, this book describes the class of numerical methods based on generalized polynomial chaos (gPC).

These fast, efficient, and accurate methods are an extension of the classical spectral methods of high-dimensional random spaces. Designed to simulate complex systems subject to random inputs, these methods are widely used in many areas of computer science and engineering. The book introduces polynomial approximation theory and probability theory; describes the basic theory of gPC methods through numerical examples and rigorous development; details the procedure for converting stochastic equations into deterministic ones; using both the Galerkin and collocation approaches; and discusses the distinct differences and challenges arising from high-dimensional problems. The last section is devoted to the application of gPC methods to critical areas such as inverse problems and data assimilation. Ideal for use by graduate students and researchers both in the classroom and for self-study, Numerical Methods for Stochastic Computations provides the required tools for in-depth research related to stochastic computations. The first graduate-level textbook to focus on the fundamentals of numerical methods for stochastic computations Ideal introduction for graduate courses or self-study Fast, efficient, and accurate numerical methods Polynomial approximation theory and probability theory included Basic gPC methods illustrated through examples

The United Nations and the Indonesian Takeover of West Papua, 1962-1969
Springer Nature

A fast-paced and practical guide to demystifying big data and transforming it into operational intelligence About This Book Want to get started with Splunk to analyze and visualize machine data? Open this book and step into the world

of Splunk. Leverage the exceptional analysis and visualization capabilities to make informed decisions for your business. This easy-to-follow, practical book can be used by anyone, even if you have never managed any data before. Who This Book Is For: This book will be perfect for you if you are a Software engineer or developer or System administrators or Business analyst who seek to correlate machine data with business metrics and provide intuitive real-time and statistical visualizations. Some knowledge or experience of previous versions of Splunk will be helpful but not essential. What You Will Learn: Install and configure Splunk. Gather data from different sources, isolate them by indexes, classify them into source types, and tag them with the essential fields. Be comfortable with the Search Processing Language and get to know the best practices in writing search queries. Create stunning and powerful dashboards. Be proactive by implementing alerts and scheduled reports. Use the Splunk SDK and integrate Splunk data into other applications. Implement the best practices in using Splunk. In Detail: Splunk is a search, analysis, and reporting platform for machine data, which has a high adoption on the market. More and more organizations want to adopt Splunk to use their data to make informed decisions. This book is for anyone who wants to manage data with Splunk. You'll start with very basics of Splunk—installing Splunk—and then move on to searching machine data with Splunk. You will gather data from different sources, isolate them by indexes, classify them into source types, and tag them with the essential fields. After this, you will learn to create various reports, XML forms, and alerts. You will

then continue using the Pivot Model to transform the data models into visualization. You will also explore visualization with D3 in Splunk. Finally you'll be provided with some real-world best practices in using Splunk. Style and approach: This fast-paced, example-rich guide will help you analyze and visualize machine data with Splunk through simple, practical instructions.

MIMO Springer Science & Business Media. This book focuses on new techniques, analysis, applications and future trends of microstrip and printed antenna technologies, with particular emphasis to recent advances from the last decade. Attention is given to fundamental concepts and techniques, their practical applications and the future scope of developments. Several topics, essayed as individual chapters include reconfigurable antenna, ultra-wideband (UWB) antenna, reflectarrays, antennas for RFID systems and also those for body area networks. Also included are antennas using metamaterials and defected ground structures (DGSs). Essential aspects including advanced design, analysis and optimization techniques based on the recent developments have also been addressed. Key Features: Addresses emerging hot topics of research and applications in microstrip and printed antennas. Considers the fundamental concepts, techniques, applications and future scope of such technologies. Discusses modern applications such as wireless base station to mobile handset, satellite earth station to airborne communication systems, radio frequency identification (RFID) to body area networks, etc. Contributions from highly regarded experts and pioneers from the US, Europe and Asia. This book provides a reference for R&D researchers,

professors, practicing engineers, and scientists working in these fields. Graduate students studying/working on related subjects will find this book as a comprehensive literature for understanding the present and future trends in microstrip and printed antennas.

Numerical Methods for Stochastic Computations Springer Nature

An active reading experience to learn DAX Power Pivot is an embedded database that significantly improves the business intelligence (BI) reporting an analytics capabilities of Microsoft Excel (versions 2010 and above). Data analysis expressions (DAX) is the formula language of Power Pivot. Learning the DAX language is key to empower Excel users so they can take advantage of these new BI capabilities, however unfortunately simply reading a book is normally not enough for Excel users to learn the DAX language - most people will also need some practice. Learn to Write DAX is different to other books - it is written in such a way to clearly explain the concepts of Power Pivot while at the same time giving hands-on practice to deeply engage the reader and to help the new knowledge and concepts stick. The book first presents the theory, then provides worked through sample exercises demonstrating each of the concepts, and finally it provides the reader with practice exercises and answers to maximize learning retention. This is the second edition of the book Learn to Write DAX. This second edition has been updated for the Excel 2016 user interface while still providing a bridge for readers wanting to learn DAX in the Excel environment and then transfer their new DAX skills across to Power BI. *Electronics and Electrical Engineering*

Basuki Solusi Konsultindo

Sinopsis Buku Antena & Propagasi: Teori dan Praktik sangat bermanfaat bagi para profesional, praktisi, maupun pehobi amatir radio. Buku ini berisi 11 bab yang sesuai dengan kurikulum perguruan tinggi. Antena Yagi banyak digunakan oleh operator radio maupun penerima televisi yang disajikan pada Bab 7. Teknik perhitungan, perencanaan antena, hingga simulasi parameter antena, impedansi, gain, pola radiasi antena Yagi berelemen pada frekuensi 145MHz diperlihatkan dengan detail. Pengenalan antena gelombang mikro seperti Wi-Fi diperlihatkan juga. Metode pengukuran praktis maupun mekanisme perambatan gelombang juga dibahas pada bab selanjutnya. Bagi para profesional, dapat belajar teknik desain dan penyusunan antena microstrip khususnya pada Bab 9. Prosedur desain antena microstrip disajikan secara detail agar pembaca dapat mencoba sendiri. Antena microstrip banyak digunakan dalam sistem komunikasi seluler pada frekuensi di atas 1GHz. Bagian awal buku ini banyak membahas parameter dasar dan prinsip kerja sebuah antena, metode perancangan antena atau susunan antena, dan bagaimana mensimulasi desain antena. Penyampaian setiap pokok bahasan disusun dengan kalimat yang sederhana dan mudah dimengerti. Penulis berusaha untuk mengurangi ulasan matematis dan menjelaskannya dalam bentuk kalimat yang aplikatif, mudah dimengerti, dan tetap menjaga sisi ilmiahnya. Dengan membaca buku ini, pembaca diharapkan dapat, mendesain, mensimulasi, dan memfabrikasi sebuah antena atau susunan antena yang diinginkan. Penulis sangat berhutang budi kepada Dr. Onno W Purbo, atas segala saran dan kritiknya yang sangat berharga untuk penerbitan.

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Midnight Magic CRC Press

Witness the fate of beloved heroes and notorious foes in the heart-stopping conclusion to V.E. Schwab's New York Times bestselling *Shades of Magic* trilogy. *Kirkus' Best Fiction of 2017* As darkness sweeps the Maresh Empire, the once precarious balance of power among the four Londons has reached its breaking point. In the wake of tragedy, Kell—once assumed to be the last surviving Antari—begins to waver under the pressure of competing loyalties. Lila Bard, once a commonplace—but never common—thief, has survived and flourished through a series of magical trials. But now she must learn to control the magic, before it bleeds her dry. An ancient enemy returns to claim a city while a fallen hero tries to save a kingdom in decay. Meanwhile, the disgraced Captain Alucard Emery of the Night Spire collects his crew, attempting a race against time to acquire the impossible. *Shades of Magic* series 1. A Darker Shade of Magic 2. A Gathering of Shadows 3. A Conjuring of Light At the Publisher's request, this title is being sold without Digital Rights Management Software (DRM) applied.

Earth Resources Pearson

Provides instructions on how to build low-cost telecommunications infrastructure. Topics covered range from basic radio physics and network design to equipment and troubleshooting, a chapter on Voice over IP (VoIP), and a selection of four case studies from networks deployed in Latin America. The text was written and

reviewed by a team of experts in the field of long distance wireless networking in urban, rural, and remote areas. Contents: 1) Where to Begin. 2) A Practical Introduction to Radio Physics. 3) Network Design. 4) Antennas & Transmission Lines. 5) Networking Hardware. 6) Security & Monitoring. 7) Solar Power. 8) Building an Outdoor Node. 9) Troubleshooting. 10) Economic Sustainability. 11) Case Studies. See the website for translations, including French, Spanish, Portuguese, Italian, Arabic, and others, and additional case studies, training course material, and related information

Ferroelectric-Gate Field Effect Transistor Memories CRC Press

This book provides comprehensive coverage of the materials characteristics, process technologies, and device operations for memory field-effect transistors employing inorganic or organic ferroelectric thin films. This transistor-type ferroelectric memory has interesting fundamental device physics and potentially large industrial impact. Among various applications of ferroelectric thin films, the development of nonvolatile ferroelectric random access memory (FeRAM) has been most actively progressed since the late 1980s and reached modest mass production for specific application since 1995. There are two types of memory cells in ferroelectric nonvolatile memories. One is the capacitor-type FeRAM and the other is the field-effect transistor (FET)-type FeRAM. Although the FET-type FeRAM claims the ultimate scalability and nondestructive readout characteristics, the capacitor-type FeRAMs have been the main interest for the major semiconductor memory companies, because the ferroelectric FET has fatal handicaps of cross-talk for

random accessibility and short retention time. This book aims to provide the readers with development history, technical issues, fabrication methodologies, and promising applications of FET-type ferroelectric memory devices, presenting a comprehensive review of past, present, and future technologies. The topics discussed will lead to further advances in large-area electronics implemented on glass, plastic or paper substrates as well as in conventional Si electronics. The book is composed of chapters written by leading researchers in ferroelectric materials and related device technologies, including oxide and organic ferroelectric thin films.

Wireless Networking in the Developing World Jo-Ann Carson Terpstra

Research and development on optical wavelength-division multiplexing (WDM) networks have matured considerably. While optics and electronics should be used appropriately for transmission and switching hardware, note that "intelligence" in any network comes from "software," for network control, management, signaling, traffic engineering, network planning, etc. The role of software in creating powerful network architectures for optical WDM networks is emphasized. *Optical WDM Networks* is a textbook for graduate level courses. Its focus is on the networking aspects of optical networking, but it also includes coverage of physical layers in optical networks. The author introduces WDM and its enabling technologies and discusses WDM local, access, metro, and long-haul network architectures. Each chapter is self-contained, has problems at the end of each chapter, and the material is organized for self study as

well as classroom use. The material is the most recent and timely in capturing the state-of-the-art in the fast-moving field of optical WDM networking.

Wireless and Mobile Communications

Springer Nature

The Doppler Effect can be thought of as the change in frequency of a wave for an observer moving relative to the source of the wave. In radar, it is used to measure the velocity of detected objects. This highly practical resource provides thorough working knowledge of the micro-Doppler effect in radar, including its principles, applications and implementation with MATLAB codes. The book presents code for simulating radar backscattering from targets with various motions, generating micro-Doppler signatures, and analyzing the characteristics of targets. In this title, professionals will find detailed descriptions of the physics and mathematics of the Doppler and micro-Doppler effect. The book provides a wide range of clear examples, including an oscillating pendulum, a spinning and precession heavy top, rotating rotor blades of a helicopter, rotating wind-turbine blades, a person walking with swinging arms and legs, a flying bird, and movements of quadruped animals.

Microstrip and Printed Antennas Packt Publishing Ltd

Here's the new second edition of the classic reference in the field. From highly respected industry pioneer William Lee, this thoroughly updated reference provides a complete technical description of the design, analysis, and maintenance of cellular systems. Includes updated coverage of the practical concepts, design techniques, and operation of mobile cellular systems for engineers and technicians.