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Biomaterials Science and Tissue Engineering Aug 27 2019 Covers key principles and methodologies of biomaterials science and tissue engineering with the help of numerous case studies.

Fundamentals of Business (black and White) Sep 20 2021 (Black & White version) Fundamentals of Business was created for Virginia Tech's MGT 1104 Foundations of Business through a collaboration between the Pamplin College of Business and Virginia Tech Libraries. This book is freely available at: http://hdl.handle.net/10919/70961 It is licensed with a Creative Commons-NonCommercial ShareAlike 3.0 license.

Mathematics for Business, Science, and Technology Dec 12 2020 This text is targeted at high school seniors who plan to enter business, science, and technology related fields, and working professionals seeking to enhance their knowledge on various math topics including probability and optimization methods. This book begins with the basic mathematical operations and ends with advanced and yet practical examples. Contains many real-world examples supplemented with computer applications. It is ideal for self-study.

Fundamentals of the Theory of Computation Feb 11 2021 This innovative textbook presents the key foundational concepts that can be covered in a one semester undergraduate course in the theory of computation. It offers the most accessible and motivational course material available for undergraduate computer theory classes and is directed at the typical undergraduate who may have difficulty understanding the relevance of the course to their future careers. The text helps make students more comfortable with techniques required for the deeper study of computer science.

This text is a bridge between theory and practice. It shows how theory is motivated by practical problems, and in turn how theory influences the practice of computing. Simple tools like string matchers, complex tools like compilers, and general notions like cryptographic security all lie at the interface between principles and practice. * Contains coverage of contemporary topics: languages and problems, machine models, grammars, reductions, resource consumption, syntax vs. semantics, sequential vs. parallel computation, feasible vs. intractable problems * Motivates students by clarifying complex theory with many examples, exercises, and detailed proofs * Offers an integrated review of discrete math concepts, defining each concept where it is first used * Unifies notation for describing machine models * Emphasizes computational complexity

Multimedia Signals and Systems Oct 10 2020 Multimedia Signals and Systems is primarily a technical introductory level multimedia textbook, including problems, examples, and MATLAB® codes. It will be a stepping-stone for readers who want to research in audio processing, image and video processing, and data compression. This book will also be useful to readers who are carrying out research and development in systems areas such as television engineering and storage media. Anyone who seeks to learn the core multimedia signal processing techniques and systems will need Multimedia Signals and Systems. There are many chapters that are generic in nature and provide key concepts of multimedia systems to technical as well as non-technical persons. There are also several chapters that provide a mathematical/ analytical framework for basic multimedia signal processing. The readers are expected to have some prior knowledge about discrete signals and systems, such as Fourier transform and digital filters. However, a brief review of these theories is provided. Additional material for this book, including several MATLAB® codes along with a few test data samples; e.g., audio, image and video may be downloaded from http://extras.springer.com.

Fundamentals of Public International Law Nov 03 2022 Fundamentals of Public International Law, by Giovanni Distefano, provides an overview of public international law's main principles and fundamental institutions.

Engineering Fundamentals: An Introduction to Engineering Nov 22 2021 Now in dynamic full color, ENGINEERING FUNDAMENTALS: AN INTRODUCTION TO ENGINEERING, 5e helps students develop the strong problem-solving skills and solid foundation in fundamental principles they will need to become analytical, detail-oriented, and creative engineers. The book opens with an overview of what engineers do, an inside glimpse of the various areas of specialization, and a straightforward look at what it takes to succeed. It then covers the basic physical concepts and laws that students will encounter on the job. Professional Profiles throughout the text highlight the work of practicing engineers from around the globe, tying in the fundamental principles and applying them to professional engineering. Using a flexible, modular format, the book demonstrates how engineers apply physical and chemical laws and principles, as well as mathematics, to design, test, and supervise the production of millions of parts, products, and services that people use every day. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Fundamentals of Gas Reservoir Engineering Apr 27 2022 Gas reservoir engineering is the branch of reservoir engineering that deals exclusively with reservoirs of non-associated gas. The prime purpose of reservoir engineering is the formulation of development and production plans that will result in maximum recovery for a given set of economic, environmental and technical constraints. This is not a one-time activity but needs continual updating throughout the production life of a reservoir. The objective of this book is to bring together the fundamentals of gas reservoir engineering in a coherent and systematic manner. It is intended both for students who are new to the subject and practitioners, who may use this book as a reference and refresher. Each chapter can be read independently of the others and includes several, completely worked exercises. These exercises are an integral part of the book; they not only illustrate the theory but also show how to apply the theory to practical problems. Chapters 2, 3 and 4 are concerned with the basic physical properties of reservoirs and natural gas fluids, insofar as of relevance to gas reservoir engineering. Chapter 5

deals with the volumetric estimation of hydrocarbon fluids in-place and the recoverable hydrocarbon reserves of gas reservoirs. Chapter 6 presents the material balance method, a classic method for the analysis of reservoir performance based on the Law of Conservation of Mass. Chapters 7-10 discuss various aspects of the flow of natural gas in the reservoir and the wellbore: single phase flow in porous and permeable media; gaswell testing methods based on single-phase flow principles; the mechanics of gas flow in the wellbore; the problem of water coning, the production of water along with the gas in gas reservoirs with underlaying bottom water. Chapter 11 discusses natural depletion, the common development option for dry and wet gas reservoirs. The development of gas-condensate reservoirs by gas injection is treated in Chapter 12. Appendix A lists the commonly used units in gas reservoir engineering, along with their conversion factors. Appendix B includes some special physical and mathematical constants that are of particular interest in gas reservoir engineering. Finally, Appendix C contains the physical properties of some common natural-gas components.

Mathematical Analysis Jan 31 2020 A self-contained introduction to the fundamentals of mathematical analysis Mathematical Analysis: A Concise Introduction presents the foundations of analysis and illustrates its role in mathematics. By focusing on the essentials, reinforcing learning through exercises, and featuring a unique "learn by doing" approach, the book develops the reader's proof writing skills and establishes fundamental comprehension of analysis that is essential for further exploration of pure and applied mathematics. This book is directly applicable to areas such as differential equations, probability theory, numerical analysis, differential geometry, and functional analysis. Mathematical Analysis is composed of three parts: ?Part One presents the analysis of functions of one variable, including sequences, continuity, differentiation, Riemann integration, series, and the Lebesgue integral. A detailed explanation of proof writing is provided with specific attention devoted to standard proof techniques. To facilitate an efficient transition to more abstract settings, the results for single variable functions are proved using methods that translate to metric spaces. ?Part Two explores the more abstract counterparts of the concepts outlined earlier in the text. The reader is introduced to the fundamental spaces of analysis, including Lp spaces, and the book successfully details how appropriate definitions of integration, continuity, and differentiation lead to a powerful and widely applicable foundation for further study of applied mathematics. The interrelation between measure theory, topology, and differentiation is then examined in the proof of the Multidimensional Substitution Formula. Further areas of coverage in this section include manifolds, Stokes' Theorem, Hilbert spaces, the convergence of Fourier series, and Riesz' Representation Theorem. ?Part Three provides an overview of the motivations for analysis as well as its applications in various subjects. A special focus on ordinary and partial differential equations presents some theoretical and practical challenges that exist in these areas. Topical coverage includes Navier-Stokes equations and the finite element method. Mathematical Analysis: A Concise Introduction includes an extensive index and over 900 exercises ranging in level of difficulty, from conceptual questions and adaptations of proofs to proofs with and without hints. These opportunities for reinforcement, along with the overall concise and well-organized treatment of analysis, make this book essential for readers in upper-undergraduate or beginning graduate mathematics courses who would like to build a solid foundation in analysis for further work in all analysis-based branches of mathematics.

JavaScript Dec 24 2021 All of JavaScript's newest features, in depth, made easy to understand. JavaScript is a rapidly changing language and it can be challenging to keep up with all the new toys being added. JavaScript: The New Toys explores the newest features of the world's most popular programming language while also showing readers how to track what's coming next. After setting the stage by covering who manages the process of improving JavaScript, how new features get introduced, terminology, and a high-level overview of new features, it details each new or updated item in depth, with example uses, possible pitfalls, and expert recommendations for updating old habits in light of new features. JavaScript: The New Toys: Covers all the additions to JavaScript in ES2015-ES2020 plus a preview of what's coming next Explores the latest syntax: nullish coalescing, optional chaining, let and const, class syntax, private methods, private fields, new.target, numeric separators, BigInt, destructuring, default parameters,

arrow functions, async functions, await, generator functions, ... (rest and spread), template literals, binary and octal literals, ** (exponentiation), computed property/method names, for-of, for-await-of, shorthand properties, and others Details the new features and patterns including modules, promises, iteration, generators, Symbol, Proxy, reflection, typed arrays, Atomics, shared memory, WeakMap, WeakSet, and more Highlights common pitfalls and explains how to avoid them Shows how to follow the improvements process and even participate in the process yourself Explains how to use new features even before they're widely supported With its comprehensive coverage and friendly, accessible style, JavaScript: The New Toys provides an invaluable resource for programmers everywhere, whether they work in web development, Node.js, Electron, Windows Universal Apps, or another JavaScript environment.

Traffic Engineering Handbook Jun 29 2022 Get a complete look into modern traffic engineering solutions Traffic Engineering Handbook, Seventh Edition is a newly revised text that builds upon the reputation as the go-to source of essential traffic engineering solutions that this book has maintained for the past 70 years. The updated content reflects changes in key industry standards, and shines a spotlight on the needs of all users, the design of context-sensitive roadways, and the development of more sustainable transportation solutions. Additionally, this resource features a new organizational structure that promotes a more functionally-driven, multimodal approach to planning, designing, and implementing transportation solutions. A branch of civil engineering, traffic engineering concerns the safe and efficient movement of people and goods along roadways. Traffic flow, road geometry, sidewalks, crosswalks, cycle facilities, shared lane markings, traffic signs, traffic lights, and more—all of these elements must be considered when designing public and private sector transportation solutions. Explore the fundamental concepts of traffic engineering as they relate to operation, design, and management Access updated content that reflects changes in key industry-leading resources, such as the Highway Capacity Manual (HCM), Manual on Uniform Traffic Control Devices (MUTCD), AASSHTO Policy on Geometric Design, Highway Safety Manual (HSM), and Americans with Disabilities Act Understand the current state of the traffic engineering field Leverage revised information that homes in on the key topics most relevant to traffic engineering in today's world, such as context-sensitive roadways and sustainable transportation solutions Traffic Engineering Handbook, Seventh Edition is an essential text for public and private sector transportation practitioners, transportation decision makers, public officials, and even upper-level undergraduate and graduate students who are studying transportation engineering.

CompTIA A+ Complete Study Guide Aug 20 2021 CompTIA Authorized, fully updated Study Guide for the leading IT certification: CompTIA A+ CompTIA A+ is the de facto certification for IT technicians. Some vendors even require employees to achieve certification as part of their job training. This book prepares you for both required exams: 220-801 and 220-802. Totally updated to cover the 2012 exams, this popular prep guide covers all the exam objectives. Readers will also have access to additional study tools, including the Sybex Test Engine with bonus practice exams, electronic flashcards, and a glossary of important terms in searchable PDF form. Includes a coupon for 10% Off CompTIA Certification Exams A complete study guide to both exams required for CompTIA A+ certification, the standard certification for software and hardware vendors and major technology companies Covers personal computer components, laptops and portable devices, operating systems (including mobile), printers and scanners, networks, security, safety and environmental issues, communication, and professionalism Provides clear and concise information on crucial hardware and operating system maintenance and troubleshooting topics Offers practical examples, real-world insights, exam highlights, and end-of-chapter reviews CompTIA A+ Complete Study Guide prepares the diligent student to pass both parts of the A+ exam with confidence.

The Aubin Academy Master Series: AutoCAD MEP 2012 Oct 29 2019 The Aubin Academy Master Series: AutoCAD MEP is a concise manual focused squarely on the rationale and practicality of the AutoCAD MEP process. The book emphasizes the process of creating projects in MEP rather than a series of independent commands and tools. The goal of each lesson is to help the reader complete their projects successfully. Tools are

introduced together in a focused process with a strong emphasis on "why" as well as "how." The text and exercises seek to give the reader a clear sense of the value of the tools, and a clear indication of each tool's potential. The Aubin Academy Master Series: AutoCAD MEP is a resource designed to shorten your learning curve, raise your comfort level, and, most importantly, give you real-life tested practical advice on the usage of the software to create mechanical, electrical, and plumbing designs, and calculations. Empowered with the information within this book, the reader will have insight into how to use AutoCAD MEP to create construction documents that are reflective of their standards and expectations.

A Textbook of Applied Electronics (LPSPE) May 17 2021 For close to 30 years, ⬚A Textbook of Applied Electronics⬚ has been a comprehensive text for undergraduate students of Electronics and Communications Engineering. The book comprises of 35 chapters, all delving on important concepts such as structure of solids, DC resistive circuits, PN junction, PN junction diode, rectifiers and filters, hybrid parameters, power amplifiers, sinusoidal oscillators, and time base circuits. In addition, the book consists of several chapter-wise questions and detailed diagrams to understand the complex concepts of applied electronics better. This book is also becomes an essential-read for aspirants preparing for competitive examinations like GATE and NET.

Rugby For Dummies Oct 22 2021 Now updated–a practical guide to understanding rugby, North American—style Filled with illustrations and photographs of drills and shape-up exercises, Rugby For Dummies tackles North American rugby rules, levels of play, and how to coach junior players as well as adults. This revised edition includes the scoop on the fall 2007 rugby World Cup in France, expanded coverage of women's rugby, and updated information on North America's best players and teams.

Fundamentals of Nursing Sep 08 2020 There's a new fundamentals text in town. One that centers on simple language, active learning, and a fresh new way to help you truly understand, apply, and retain important nursing information and concepts. Introducing the brand new Fundamentals of Nursing text from Yoost and Crawford. Written in a warm and conversational style, this innovative text starts by guiding you towards a basic understanding of the nursing profession and then logically progresses through the nursing process and into the safe and systematic methods of applying care. Each chapter features realistic case studies and critical thinking exercises woven throughout the content to help you continually apply what you've learned to actual patient care. Conceptual care maps further your ability to make clinical judgments and synthesize knowledge as you develop plans of care after analyzing and clustering related patient assessment data. All of this paired with a wealth of student-friendly learning features and clinically-focused content offers up a fundamentally different - and quite effective - way for you to easily master the fundamentals of nursing. UNIQUE! Active learning approach centers on case studies and critical thinking exercises that are woven throughout each chapter to ensure readers are able to apply chapter content to broader nursing concepts and realistic patient scenarios. UNIQUE! Simple to complex progression of information starts by guiding readers towards a basic understanding of the nursing profession and then logically progressing through the nursing process and into the safe and systematic methods of applying care. UNIQUE! Warm, conversational style devoid of repetitive discussions and unnecessary information slows down the pace of information to give readers time to critically think and master all fundamental concepts and skills. UNIQUE! Conceptual care maps require readers to develop a plan of care after analyzing and clustering related patient assessment data. This unique learning tool assists readers in recognizing the importance of each type of assessment data and furthers your ability to make clinical judgments and synthesize knowledge about the whole patient. Learning objectives carried throughout the chapter features the objective being showcased at the start of the chapter, tied to headings throughout the chapter, and once again reinforced at the close of the chapter. Nursing Skills sections provide information on the purpose, procedures, evidence-based practice, special circumstances, and more for a variety of important nursing skills - all supported by rationales, photos, and illustrations. Nursing Care Guidelines highlight information (including background, procedural concerns,

documentation concerns, and evidence-based practice) and resources to reduce risk and ensure safety for the patient and nurse. Diverse mix of clinically focused boxes are incorporated throughout each chapter. Collaboration and Delegation boxes stress the importance of effective and accurate communication between the healthcare team about a patient's condition and treatment, as well as the importance of assigning tasks appropriately. Ethical, Legal, and Professional Practice boxes address ethical and legal dilemmas commonly faced in nursing to prepare readers to act in a professional and nonjudgmental manner while protecting patient rights. Patient Education and Health Literacy boxes stress the importance of patient education and how to deliver information in an understandable manner based on the patient's level of health literacy. Health Assessment Questions boxes illustrate how to properly ask and use assessment questions while interviewing patients. Diversity Considerations boxes prepare readers to care for and communicate with patients of diverse ages, gender, cultural, ethnic, and religious backgrounds as well as various disability and morphological characteristics. Evidence-Based Practice and Informatics boxes provide current research and resources that, combined with clinical expertise, will contribute to improved patient care outcomes. Home Care Consideration boxes highlight issues that pertain specifically to nursing practice in the non-acute care setting. Safe Practice Alert! boxes underscore significant patient safety concerns while providing information to insure both patient and nurse safety. QSEN Focus! boxes illustrate application of the six Quality and Safety Education for Nurses (QSEN) competencies for pre-licensure nursing students: patient-centered care, teamwork and collaboration, evidence-based practice, quality improvement, safety, and informatics. Five-step nursing process framework is integrated throughout the text and in the clinical skills chapters. Care planning table in each clinical chapter highlights the first nursing diagnosis discussed in the chapter and connects it to the Nursing Outcomes Classification (NOC) and the Nursing Interventions Classification (NIC). [Do Not Feature] Animations are located throughout the book to enhance student learning. Numerous full-color illustrations and photos show anatomy, procedures, and methods. 10 review questions at the end of every chapter (with an additional 10 online) help readers review what you have learned and evaluate your understanding. End-of-book appendixes cover abbreviations, roots, prefixes, and suffixes; NANDA-I Diagnostic Labels; NCLEX-Style Question Study Tips; and glossary terms.

Fundamentals of Complementary, Alternative, and Integrative Medicine - E-Book Feb 23 2022 Get a solid, global foundation of the therapies and evidence-based clinical applications of CAI. Fundamentals of Complementary, Alternative, and Integrative Medicine, 6th Edition is filled with the most up-to-date information on scientific theory and research of holistic medicine from experts around the world. The 6th edition of this acclaimed text includes all new content on quantum biology and biofields in health and nursing, integrative mental health care, and homeopathic medicine. Its wide range of topics explores therapies most commonly seen in the U.S., such as energy medicine, mind-body therapies, and reflexology along with traditional medicine and practices from around the world. With detailed coverage of historic and contemporary applications, this text is a solid resource for all practitioners in the medical, health, and science fields! Coverage of CAI therapies and systems includes those most commonly encountered or growing in popularity, so you can carefully evaluate each treatment. An evidence-based approach focuses on treatments best supported by clinical trials and scientific evidence. Observations from mechanisms of action to evidence of clinical efficacy answers questions of how, why, and when CAM therapies work. A unique synthesis of information, including historical usage, cultural and social analysis, current basic science theory and research, and a wide range of clinical investigations and observations, makes this text a focused, authoritative resource. Global coverage includes discussions of traditional healing arts from Europe, Asia, Africa, and the Americas. Clinical guides for selecting therapies, and new advances for matching the appropriate therapy to the individual patient, enables you to offer and/or recommend individualized patient care. Expert contributors include well-known writers such as Kevin Ergil, Patch Adams, Joseph Pizzorno, and Marc Micozzi. A unique history of CAI traces CAM therapies from their beginnings to present day practices. Suggested readings and references on the companion website list the best resources for

further research and study. NEW! Added chapters offer fresh perspective on quantum biology and biofields in health and nursing, integrative mental health care, and homeopathic medicine. NEW! Updated chapters feature new content and topics, including: challenges in integrative medicine, legal issues, CAI in the community, psychometric evaluation, placebo effect, stress management, and much more! NEW! Updated guides on common herbal remedies in clinical practice, East and Southeast Asia, and native North and South America deliver the latest information. NEW! Basic science content and new theory and research studies cover a wide range of sciences such as biophysics, biology and ecology, ethnomedicine, psychometrics, neurosciences, and systems theory. NEW! Expanded global ethnomedical systems includes new content on Shamanism and Neo-Shamanism, Central and North Asia, Southeast Asia, Nepal and Tibet, Hawaii and South Pacific, Alaska and Pacific Northwest, and contemporary global healthcare.

Fundamentals of Financial Management, Concise Edition Nov 30 2019 Gain a solid understanding of real-world corporate finance and financial management with a unique balance of contemporary theory and practical applications found in the leading FUNDAMENTALS OF FINANCIAL MANAGEMENT, CONCISE EDITION 9E by Brigham/Houston. Engaging and easy to understand, this complete introduction to corporate finance emphasizes the concept of valuation throughout and Time Value of Money (TVM) early, giving you time to absorb the concepts fully. Numerous examples, end-of-chapter applications, and Integrated Cases give you a better understanding of the concepts and reasons behind corporate budgeting, financing, and working capital decision making. In addition, Excel Spreadsheet Models help you master this critical software tool. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Fundamentals Of Solar Cells Sep 28 2019 Fundamentals of Solar Cells: Photovoltaic Solar Energy Conversion provides an introduction to the fundamental physical principles of solar cells. It aims to promote the expansion of solar photovoltaics from relatively small and specialized use to a large-scale contribution to energy supply. The book begins with a review of basic concepts such as the source of energy, the role of photovoltaic conversion, the development of photovoltaic cells, and sequence of phenomena involved in solar power generation. This is followed by separate chapters on each of the processes that take place in solar cell. These include solar input; properties of semiconductors; recombination and the flow of photogenerated carriers; charge separation and the characteristics of junction barriers; and calculation of solar efficiency. Subsequent chapters deal with the operation of specific solar cell devices such as a single-crystal homojunction (Si); a single-crystal-heterojunction/buried-homojunction (AlGaAs/GaAs); and a polycrystalline, thin-film cell (CuxS/CdS). This book is intended for upper-level graduate students who have a reasonably good understanding of solid state physics and for scientists and engineers involved in research and development of solar cells.

Digital Illustration Fundamentals Jun 05 2020 This fun, concise, full color book introduces the fundamentals of digital illustration, and covers how to develop and optimize these types of scalable vector graphics (SVG) using Inkscape 0.91 or later. It also covers concepts central to digital painting using the Corel Painter 2016 professional digital painting and illustration paid software package, which also has a free trial version, and a discount for purchasers of this book. The book builds upon the foundational concepts of vector graphics and the SVG format, and gets more advanced as chapters progress, covering what vector new media formats, and SVG commands and SVG filters, are best for use with Android Studio, Java 8, JavaFX, iOS, Kindle Fire and HTML5. The book covers key factors regarding the data footprint optimization work process, and why data footprint optimization is important, and covers programming languages used for digital illustration, and publishing platforms which support digital illustration, and how to assimilate these into your digital illustration and digital painting content production pipelines and workflow. You will learn: The terminology of vector imaging and digital illustration What comprises a digital illustration 2D modeling and rendering pipeline Concepts and principles behind digital illustration content production How to install and utilize 64-bit Inkscape 0.91 for Windows, Mac OSX and Linux Concepts behind spline curves, strokes, fills, patterns and rendering Digital illustration data formats and data footprint optimization Audience Primary: Artists,

Illustrators, Website Developers, Flash Developers, User Interface Designers, Digital Signage Content Developers, e-Learning Content Creators, eBook Authors. Secondary: Android Developers, iOS Developers, Multimedia Producers, Rich Internet Application (RIA) Programmers, Game Designers, Teachers, Educators. div

Fundamentals of Adhesion Jan 01 2020 Evolved as a reference book for participants at a short annual fall course at the State University of New York at New Paltz. This first volume concentrates on adhesion with or without the use of an adhesive. Second volume title 'Adhesive bonding' deals with bonding with the aid of adhesives.

Introduction to CATIA V6 Release 2012 Sep 01 2022 An Introduction to CATIA V6 Release 2012 is a collection of tutorials meant to familiarize you with CATIA's Mechanical Design and Shape workbenches. Designed for beginners, this book assumes that you have no previous experience using CATIA. The book's hands-on approach is designed to get you right into CATIA and start drawing right from the start. You will learn by doing, not just reading. The author helps you explore all the major features of CATIA and directs you to CATIA's online documentation for a more detailed description of the commands when appropriate. The workbenches covered in this book are; Sketcher, Part Design, Assembly Design, Drafting, Generative Surface Design, and Imagine and Shape. Preceding each tutorial is a brief description of the workbench, toolbars, and commands to be used and focused on within the tutorial.

Pumping Station Design Jan 25 2022 This award-winning book is written for a variety of professionals: the expert and the beginner in the design office, members of a design team, the city engineer or chief engineer of a water or sewerage authority (or their subordinates) who may review plans and specifications, and manufacturers and their representatives who should know how their equipment will be used in practice. The depth of experience and expertise of the authors, contributors, and peers reviewing the content is unparalled. Pumping Station Design, 3rd is essential for professionals who will apply the fundamentals of various disciplines and subjects in order to produce a well-integrated pumping station which will be reliable, easy to operate and maintain, and free from design mistakes. Inappropriate design can be costly and there simply is no excuse for not taking expert advice from the pages of this book. An award-winning reference work that has become THE standard in the field; Dispenses expert information on how to produce a well-integrated pumping station that will be reliable, easy to operate and maintain, and free from design mistakes; Multi-contributed tome providing expert advice that has gone through a peer review process

SOLIDWORKS 2022 Quick Start Jul 07 2020 SOLIDWORKS 2022 Quick Start introduces new users to the basics of using SOLIDWORKS 3D CAD software in five easy lessons. This book is intended for the student or designer who needs to learn SOLIDWORKS quickly and effectively. This book is perfect for engineers in industry who are expected to have SOLIDWORKS skills for their company's next project or students who need to learn SOLIDWORKS without taking a comprehensive CAD course. Based on years of teaching SOLIDWORKS to engineering students, SOLIDWORKS 2022 Quick Start concentrates on the areas where new users can improve efficiency in the design modeling process. By learning the correct SOLIDWORKS skills and file management techniques, you gain the most knowledge in the shortest period of time. This book begins with an overview of SOLIDWORKS and the User Interface (UI), its menus, toolbars and commands. With a quick pace, you learn the essentials of 2D sketching, part and assembly creation, perform motion study, develop detailed part and assembly drawings and much more. Throughout this book you develop a mini Stirling Engine and investigate the proper design intent and constraints. Bonus Chapters Two bonus chapters are included with this book. Chapter six is a review of the Certified SOLIDWORKS Associate (CSWA) exam. It will help you understand the curriculum and categories of the CSWA exam and the required model knowledge needed to successfully take and pass the exam. Chapter seven is an introduction to additive manufacturing (3D printing). It covers the difference between additive and subtractive manufacturing, 3D printer terminology, knowledge of preparing, saving, and

printing a model on a Fused Filament Fabrication 3D printer and much more. This chapter also includes information on the Certified SOLIDWORKS Additive Manufacturing Certification (CSWA-AM) exam.

Computer Networking: Network+ Certification Study Guide for N10-008 Exam 2 Books in 1 Aug 08 2020 If you want to PASS the CompTIA Network+ Certification, this book is for you! In this book you will discover: · Network Concepts and Protocols · CompTIA Network+ Exam Information · OSI Model & Network Operations · Encapsulation and the OSI Model · Network Protocols and Port Numbers · DHCP, DNS & NTP · SQL Database Protocols · TCP & UDP Protocols · Binary and Hexadecimal Numbers · How to Convert Decimal to Binary · IPv4 Addressing Fundamentals · Classless & Classfull Addressing · IP Address Types · How to Subnet Networks · IPv6 Address Fundamentals · IPv6 SLAAC & IPv6 DHCP · Network Address Translation · Dynamic Host Configuration Protocol · Domain Name System · Ethernet Cabling · Coax Cabling and Cable Termination · Fiber Optics · Multiplexing Fiber Optics · Ethernet Fundamentals · CSMA/CD · Duplex and Speed · Ethernet Frame Fundamentals · Ethernet Layer 2 Operation · Spanning Tree Protocol · VLANs and Port Aggregation · How to Route IP Traffic · Address Resolution Protocol · How to Send Ping to Default Gateway · How to Build Routing Tables · Wireless Networking Fundamentals · Wireless 802.11 Protocols · Wireless Ethernet Operation · Wireless Topologies and Management · Wireless Encryption · Cellular Wireless · Layer 2 Devices and Services · Traffic Shaping · Neighbor Device Discovery · Load Balancer Fundamentals · Firewall Fundamentals · VoiP & SCADA Systems · Network Monitoring · Layer 2 Errors · Facilities Monitoring · Collecting Network Monitoring & Baselining · BUY THIS BOOK NOW AND GET STARTED TODAY!

Ethernet: The Definitive Guide Jan 13 2021 Ethernet is a core networking technology used by every high tech business. While the basic protocols have changed little, new options such as Fast Ethernet and Gigabit Ethernet have increased the complexity of the topic. Ethernet has been the flavor of choice for networking administrators since the early 1980s because of its ease of use and scalability. Written by one of the foremost experts on Ethernet standards and configuration, Charles E. Spurgeon, Ethernet: The Definitive Guide includes everything you need to know to set up and maintain an Ethernet network. Ethernet: The Definitive Guide teaches you everything you need to know about the IEEE 802.3 Ethernet standard and its protocols. The book is logically separated into five parts: Introduction to Ethernet provides a tour of basic Ethernet theory and operation, including a description of Ethernet frames, operation of the Media Access Control (MAC) protocol, full-duplex mode and auto-negotiation. Ethernet Media Systems is the heart of the book. This sectionof Ethernet: The Definitive Guide shows you how to build media-specific Ethernet networks, from a basic 10BASE-T Ethernet offering 10 Mbps over twisted-pair cables, to an advanced 1000BASE-X Gigabit Ethernet, providing up to 1 Gbps of data transfer over fiber optic cables. Building Your Ethernet System teaches you how to build twisted-pair and fiber optic media segments, as well as how to build your Ethernet using repeaters and hubs. Performance and Troubleshooting is divided into two chapters. The first describes both the performance of a given Ethernet channel, as well as the performance of the entire network system. The second includes a tutorial on troubleshooting techniques and describes the kinds of problems network administrators are likely to encounter. The last part of the book includes a complete glossary of terms used throughout the book, a resource list, descriptions of thick and thin coax-based Ethernet systems, a guide to AUI equipment installation and configuration, and a listing of troubleshooting numbers. This book is the definitive guide for anyone wanting to build a scalable local area network (LAN) using Ethernet.

Fundamentals of Interface and Colloid Science May 05 2020 Volume V is the counterpart of Volume IV and treats hydrophilic colloids and related items. Contains edited contributions on steric stabilization, depletion, polyelectrolytes, proteins at interfaces, association colloids, microemulsions, thin films, foams and emulsions. J. Lyklema is coauthor of two chapters and general editor. Other authors include: G.J. Fleer, F.A.M. Leermakers, M.A. Cohen Stuart, W. Norde, J.A.G. Buijs, J.C. Eriksson, T.Sottmann, R. Strey, D. Platikanov, D. Ekserova, V.Bergeron and P.Walstra. *

This volume completes the prestigious series Fundamentals of Interface and Colloid Science * Together with Volume IV this book provides a comprehensive introduction to colloid science. * Explains and elaborates phenomena starting from basic principles and progresses to more advanced topics

Fundamentals of Inorganic Glasses Mar 27 2022 Although several fine volumes have been published on special topics in glass, Fundamentals of Inorganic Glasses is the first book to provide the breadth required of a comprehensive undergraduate textbook. In a clear tutorial style, this volume provides comprehensive coverage of the composition, structure, and properties of inorganic glasses. Designed to serve as the primary text for "glass science" courses at the upper-undergraduate level, this book facilitates learning with a clear discussion of fundamental concepts, chapter-ending problem sets, an emphasis on key ideas, and timely notes on suggested readings. Professor Varshneya has filled a gap in the existing literature by providing a textbook that is uniquely comprehensive while striving always to help the student develop a clear understanding of the fundamentals underlying glass science. Clearly develops fundamental concepts Provides comprehensive discussion of the composition, structure, and properties of inorganic glasses Leads the reader through areas where a deeper understanding is needed Presents necessary mathematics in a readable manner Introduces numerous and interesting real-world examples that give the reader insight into application of the material covered in the text Concludes chapters with problem sets and suggested readings to facilitate self-study

Slatter's Fundamentals of Veterinary Ophthalmology Jun 17 2021 The Veterinary Consult" version of this title provides electronic access to the complete content of this book. "Veterinary Consult" allows you to electronically search your entire book, make notes, add highlights, and study more efficiently. Purchasing additional "Veterinary Consult" titles makes your learning experience even more powerful. All of the "Veterinary Consult" books will work together on your electronic 'bookshelf', so that you can search across your entire library of veterinary books. "Veterinary Consult": It's the best way to learn!

The Kimball Group Reader Oct 02 2022 The final edition of the incomparable data warehousing and business intelligence reference, updated and expanded The Kimball Group Reader, Remastered Collection is the essential reference for data warehouse and business intelligence design, packed with best practices, design tips, and valuable insight from industry pioneer Ralph Kimball and the Kimball Group. This Remastered Collection represents decades of expert advice and mentoring in data warehousing and business intelligence, and is the final work to be published by the Kimball Group. Organized for quick navigation and easy reference, this book contains nearly 20 years of experience on more than 300 topics, all fully up-to-date and expanded with 65 new articles. The discussion covers the complete data warehouse/business intelligence lifecycle, including project planning, requirements gathering, system architecture, dimensional modeling, ETL, and business intelligence analytics, with each group of articles prefaced by original commentaries explaining their role in the overall Kimball Group methodology. Data warehousing/business intelligence industry's current multi-billion dollar value is due in no small part to the contributions of Ralph Kimball and the Kimball Group. Their publications are the standards on which the industry is built, and nearly all data warehouse hardware and software vendors have adopted their methods in one form or another. This book is a compendium of Kimball Group expertise, and an essential reference for anyone in the field. Learn data warehousing and business intelligence from the field's pioneers Get up to date on best practices and essential design tips Gain valuable knowledge on every stage of the project lifecycle Dig into the Kimball Group methodology with hands-on guidance Ralph Kimball and the Kimball Group have continued to refine their methods and techniques based on thousands of hours of consulting and training. This Remastered Collection of The Kimball Group Reader represents their final body of knowledge, and is nothing less than a vital reference for anyone involved in the field.

Fundamentals of Biomechanics Jul 19 2021 In the last three or four decades, studies of biomechanics have expanded from simple topical

applications of elementary mechanics to entire areas of study. Studies and research in biomechanics now exceed those in basic mechanics itself, underlining the continuing and increasing importance of this area of study. With an emphasis on biodynamic modeling, Fundamentals of Biomechanics provides an accessible, basic understanding of the principles of biomechanics analyses. Following a brief introductory chapter, the book reviews gross human anatomy and basic terminology currently in use. It describes methods of analysis from elementary mathematics to elementary mechanics and goes on to fundamental concepts of the mechanics of materials. It then covers the modeling of biosystems and provides a brief overview of tissue biomechanics. The author then introduces the concepts of biodynamics and human body modeling, looking at the fundamentals of the kinematics, the kinetics, and the inertial properties of human body models. He supplies a more detailed analysis of kinematics, kinetics, and dynamics of these models and discusses the numerical procedures for solving the governing dynamical equations. The book concludes with a review of a few example applications of biodynamic models such as simple lifting, maneuvering in space, walking, swimming, and crash victim simulation. The inclusion of extensive lists of problems of varying difficulty, references, and an extensive bibliography add breadth and depth to the coverage. Focusing on biodynamic modeling to a degree not found in other texts, this book equips readers with the expertise in biomechanics they need for advanced studies, research, and employment in biomedical engineering.

Infrastructure as Code (IAC) Cookbook Apr 03 2020 Over 90 practical, actionable recipes to automate, test, and manage your infrastructure quickly and effectively About This Book Bring down your delivery timeline from days to hours by treating your server configurations and VMs as code, just like you would with software code. Take your existing knowledge and skill set with your existing tools (Puppet, Chef, or Docker) to the next level and solve IT infrastructure challenges. Use practical recipes to use code to provision and deploy servers and applications and have greater control of your infrastructure. Who This Book Is For This book is for DevOps engineers and developers working in cross-functional teams or operations and would now switch to IAC to manage complex infrastructures. What You Will Learn Provision local and remote development environments with Vagrant Automate production infrastructures with Terraform, Ansible and Cloud-init on AWS, OpenStack, Google Cloud, Digital Ocean, and more Manage and test automated systems using Chef and Puppet Build, ship, and debug optimized Docker containers Explore the best practices to automate and test everything from cloud infrastructures to operating system configuration In Detail Infrastructure as Code (IAC) is a key aspect of the DevOps movement, and this book will show you how to transform the way you work with your infrastructure—by treating it as software. This book is dedicated to helping you discover the essentials of infrastructure automation and its related practices; the over 90 organized practical solutions will demonstrate how to work with some of the very best tools and cloud solutions. You will learn how to deploy repeatable infrastructures and services on AWS, OpenStack, Google Cloud, and Digital Ocean. You will see both Ansible and Terraform in action, manipulate the best bits from cloud-init to easily bootstrap instances, and simulate consistent environments locally or remotely using Vagrant. You will discover how to automate and test a range of system tasks using Chef or Puppet. You will also build, test, and debug various Docker containers having developers' interests in mind. This book will help you to use the right tools, techniques, and approaches to deliver working solutions for today's modern infrastructure challenges. Style and approach This is a recipe-based book that allows you to venture into some of the most cutting-edge practices and techniques about IAC and solve immediate problems when trying to implement them.

Fundamentals of Social Research Methods Mar 15 2021

Infosec Management Fundamentals Jul 31 2022 Infosec Management Fundamentals is a concise overview of the Information Security management concepts and techniques, providing a foundational template for both experienced professionals and those new to the industry. This brief volume will also appeal to business executives and managers outside of infosec who want to understand the fundamental concepts of Information Security and

how it impacts their business decisions and daily activities. Teaches ISO/IEC 27000 best practices on information security management Discusses risks and controls within the context of an overall information security management system (ISMS) Provides foundational information for experienced professionals as well as those new to the industry.

Dynamics and Mission Design Near Libration Points: Fundamentals : the case of triangular libration points Jul 27 2019 It is well known that the restricted three-body problem has triangular equilibrium points. These points are linearly stable for values of the mass parameter, ?, below Routh's critical value, ?1. It is also known that in the spatial case they are nonlinearly stable, not for all the initial conditions in a neighborhood of the equilibrium points L4, L5 but for a set of relatively large measures. This follows from the celebrated Kolmogorov-Arnold-Moser theorem. In fact there are neighborhoods of computable size for which one obtains ?practical stability? in the sense that the massless particle remains close to the equilibrium point for a big time interval (some millions of years, for example).According to the literature, what has been done in the problem follows two approaches: (a) numerical simulations of more or less accurate models of the real solar system; (b) study of periodic or quasi-periodic orbits of some much simpler problem.The concrete questions that are studied in this volume are: (a) Is there some orbit of the real solar system which looks like the periodic orbits of the second approach? (That is, are there orbits performing revolutions around L4 covering eventually a thick strip? Furthermore, it would be good if those orbits turn out to be quasi-periodic. However, there is no guarantee that such orbits exist or will be quasi-periodic). (b) If the orbit of (a) exists and two particles (spacecraft) are put close to it, how do the mutual distance and orientation change with time?As a final conclusion of the work, there is evidence that orbits moving in a somewhat big annulus around L4 and L5 exist, that these orbits have small components out of the plane of the Earth-Moon system, and that they are at most mildly unstable.

Instrumentation Fundamentals for Process Control Apr 15 2021 A practical introductory guide to the principles of process measurement and control. Written for those beginning a career in the instrumentation and control industry or those who need a refresher, the book will serve as a text or to supercede the mathematical treatment of control theory that will continue to be essential for a well-rounded understanding. The book will provide the reader with the ability to recognize problems concealed among a mass of data and provide minimal cost solutions, using available technology.

ASHRAE Handbook of Fundamentals Jun 25 2019

Clinical Neurosurgery Nov 10 2020 Volume 51 of Clinical Neurosurgery is the official compendium of the platform presentations at the 53rd Annual Meeting of the Congress of Neurological Surgeons held in October, 2003.

Pickleball For Dummies Mar 03 2020 The game with the funny name was created in the 1960's and is, today, the fastest growing sport in America. We take you through the hows of the game. In true Dummies fashion, the material is easy to understand and appropriate for newbies as well as advanced players. We cover it all from scoring, serving, dinking, places to play, and getting more involved in the community. No need to be intimidated - you've got Dummies on your side of the court to give you all the best tips and tricks from expert authors. If you're in a pickle because you don't know anything about this popular game, Pickleball For Dummies will teach you everything you need to know. Inside: • Learn the rules and stroke fundamentals • Intro to the fun, social aspects of the game • Advanced strategies that will raise an experienced player to next level • Tips for tournament players and club organizers

Fundamentals of Islamic Finance and Banking May 29 2022 A comprehensive and fully up-to-date introductory textbook to Islamic finance and banking Islamic finance and banking is being used increasingly globally — especially in the regions of Middle East and North Africa, South East and South Asia. To cater to the need of trained Islamic finance staff, a large number of Educational institutions are beginning to offer courses, majors and minors in Islamic finance and banking. The major challenge faced by these institutions are suitable textbooks for both undergrad and post-grad levels

and especially with the relevant instructor resources (PPTs, test bank, practice activities and answer keys). Luckily, Fundamentals of Islamic Finance and Banking is here to cover the most important topics related to Islamic finance and banking (IF&B) that are relevant for students of business, finance and banking. Offers an historical background of Islamic finance Covers the principles of Sharia Law as pertinent to finance and banking Provides in-depth discussion of the six key Islamic banking products: Murabaha, Mudaraba, Musharaka, Ijara, Salam and Istisna Discusses the Islamic insurance (Takaful) Gives an overview of Islamic investment, especially Sukuks Concludes with the global standing of the Islamic Finance and Banking industry Would-be colleges and universities offering this subject as a course within their finance and/or banking program can't be without this invaluable guide.