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Sparse representation of visual data for compression and compressed sensing Ehsan Miandji 2018-11-23 The ongoing advances in computational photography have introduced a range of new imaging techniques for capturing multidimensional visual data such as light fields, BRDFs, BTFs, and more. A key challenge inherent to such imaging techniques is the large amount of high dimensional visual data that is produced, often requiring GBs, or even TBs, of storage. Moreover, the utilization of these datasets in real time applications poses many difficulties due to the large memory footprint. Furthermore, the acquisition of large-scale visual data is very challenging and expensive in most cases. This thesis makes several contributions with regards to acquisition, compression, and real time rendering of high dimensional visual data in computer graphics and imaging applications. Contributions of this thesis reside on the strong foundation of sparse representations. Numerous applications are presented that utilize sparse representations for compression and compressed sensing of visual data. Specifically, we present a single sensor light field camera design, a compressive rendering method, a real time precomputed photorealistic rendering technique, light field (video) compression and real time rendering, compressive BRDF capture, and more. Another key contribution of this thesis is a general framework for compression and compressed sensing of visual data, regardless of the dimensionality. As a result, any type of discrete visual data with arbitrary dimensionality can be captured, compressed, and rendered in real time. This thesis makes two theoretical contributions. In particular, uniqueness conditions for recovering a sparse signal under an ensemble of multidimensional dictionaries is presented. The theoretical results discussed here are useful for designing efficient capturing devices for multidimensional visual data. Moreover, we derive the probability of successful recovery of a noisy sparse signal using OMP, one of the most widely used algorithms for solving compressed sensing problems.

English Brushup John Langan 2010-01-01 This text provides a quick, practical guide to the grammar, punctuation, and usage skills students need most and takes a self-teaching approach.

Grid-Scale Energy Storage Systems and Applications Fu-Bao Wu 2019-06-11 Grid-Scale Energy Storage Systems and Applications provides a timely introduction to state-of-the-art technologies and important demonstration projects in this rapidly developing field. Written with a view to real-world applications, the authors describe storage technologies and then cover operation and control, system integration and battery management, and other topics

important in the design of these storage systems. The rapidly-developing area of electrochemical energy storage technology and its implementation in the power grid is covered in particular detail. Examples of Chinese pilot projects in new energy grids and micro grids are also included. Drawing on significant Chinese results in this area, but also including data from abroad, this will be a valuable reference on the development of grid-scale energy storage for engineers and scientists in power and energy transmission and researchers in academia. Addresses not only the available energy storage technologies, but also topics significant for storage system designers, such as technology management, operation and control, system integration and economic assessment. Draws on the wealth of Chinese research into energy storage and describes important Chinese energy storage demonstration projects. Provides practical examples of the application of energy storage technologies that can be used by engineers as references when designing new systems.

Writing for Video Game Genres Wendy Despain 2009-02-26 This book, written and edited by members of the International Game Developers Association (IGDA) Game Writing Special Interest Group, follows the acclaimed *Professional Techniques for Video Game Writing* to deliver practical advice from seasoned veterans on the special challenges of writing for first-person shooter games (FPS), role-playing games (R

A Survey of Race Relations in South Africa South African Institute of Race Relations 1984

The Cambridge History of Medicine Roy Porter 2006-06-05 The Cambridge History of Medicine surveys the rise of medicine in the West from classical times to the present. Covering both the social and scientific history of medicine, this 2006 volume traces the chronology of key developments and events, engaging with the issues, discoveries, and controversies that have characterized medical progress.

Development of Navigation Technology for Flight Safety Baburov S.V. 2019-06-14 This book highlights practical solutions for flight safety improvement techniques, which are currently the focus of the International Civil Aviation Organization (ICAO). It has become clear that, in order to rapidly and significantly improve flight safety, the integrated use of new aeronautical technologies is called for. Considering the size of the aviation fleet, its constant growth and the long service lives of aircraft, new technologies should be adapted both to cutting-edge air navigation systems and to those that have been used for over a decade. Concretely, the book discusses methodological approaches to the construction of ground and on-board avionics that make it possible to achieve improved flight safety using innovative new methods. The proposed approaches are illustrated with real-world examples of e.g. satellite-based navigation systems and enhanced ground proximity warning systems. The book is written for professionals involved in the development of avionics systems, as well as students, researchers and experts in the field of radiolocation, radio navigation and air traffic control, the book will support the development and modeling of radio technical complexes, as well as the analysis of complex radio technical systems.

Reeds Vol 8 General Engineering Knowledge for Marine Engineers Paul Anthony Russell 2018-09-06 Developed to complement Reeds Vol 12 (Motor Engineering for Marine Engineers), this textbook is key for all marine engineering officer cadets. Accessibly written and clearly illustrated, *General Engineering Knowledge for Marine Engineers* takes into account the varying needs of students studying 'general' marine engineering, recognising

recent changes to the Merchant Navy syllabus and current pathways to a sea-going engineering career. It includes the latest equipment, practices and trends in marine engineering, as well as incorporating the 2010 Manila Amendments, particularly relating to management. It is an essential buy for any marine engineering student. This new edition reflects all developments within the discipline and includes updates and additions on, amongst other things: · Corrosion, water treatments and tests · Refrigeration and air conditioning · Fuels, such as LNG and LPG · Insulation · Low sulphur fuels · Fire and safety Plus updates to many of the technical engineering drawings.

Diesel Engine Maintenance Training Manual, U.S. Navy. February, 1946 United States. Navy Department. Bureau of Ships 1946

Animation from Pencils to Pixels Tony White 2012-09-10 Just add talent! Award-winning animator Tony White brings you the ultimate book for digital animation. Here you will find the classic knowledge of many legendary techniques revealed, paired with information relevant to today's capable, state-of-the-art technologies. White leaves nothing out. What contemporary digital animators most need to know can be found between this book's covers - from conceptions to creation and through the many stages of the production pipeline to distribution. This book is intended to serve as your one-stop how-to animation guide. Whether you're new to animation or a very experienced digital animator, here you'll find fundamentals, key classical techniques, and professional advice that will strengthen your work and well-roundedness as an animator. Speaking from experience, White presents time-honored secrets of professional animators with a warm, masterly, and knowledgeable approach that has evolved from over 30 years as an award-winning animator/director. The book's enclosed downloadable resources presents classic moments from animation's history through White's personal homage to traditional drawn animation, "Endangered Species." Using movie clips and still images from the film, White shares the 'making of' journal of the film, detailing each step, with scene-by-scene descriptions, technique by technique. Look for the repetitive stress disorder guide on the downloadable resources, called, "Mega-hurts." Watch the many movie clips for insights into the versatility that a traditional, pencil-drawn approach to animation can offer.

Engineering Thermofluids Mahmoud Massoud 2005-12-05 Thermofluids, while a relatively modern term, is applied to the well-established field of thermal sciences, which is comprised of various intertwined disciplines. Thus mass, momentum, and heat transfer constitute the fundamentals of thermofluids. This book discusses thermofluids in the context of thermodynamics, single- and two-phase flow, as well as heat transfer associated with single- and two-phase flows. Traditionally, the field of thermal sciences is taught in universities by requiring students to study engineering thermodynamics, fluid mechanics, and heat transfer, in that order. In graduate school, these topics are discussed at more advanced levels. In recent years, however, there have been attempts to integrate these topics through a unified approach. This approach makes sense as thermal design of widely varied systems ranging from hair dryers to semiconductor chips to jet engines to nuclear power plants is based on the conservation equations of mass, momentum, angular momentum, energy, and the second law of thermodynamics. While integrating these topics has recently gained popularity, it is hardly a new approach. For example, Bird, Stewart, and Lightfoot in *Transport Phenomena*, Rohsenow and Choi in *Heat, Mass, and Momentum Transfer*, El-Wakil, in *Nuclear Heat Transport*, and Todreas and Kazimi in *Nuclear Systems* have pursued a similar approach.

These books, however, have been designed for advanced graduate level courses. More recently, undergraduate books using an integral approach are appearing.

EBOOK: Regulating Pharmaceuticals in Europe: Striving for Efficiency, Equity and Quality Elias Mossialos 2004-06-16 "This thoughtful and comprehensive book represents the best work I have seen on the current situation concerning medication policies in the EU. It is not just that this is a very up-to-date compendium of facts and data across a wide variety of domains that impact on pharmaceutical regulation. The book is also strong on analysis of those facts as well." Jerry Avorn, Harvard Medical School. "This book offers a comprehensive examination of approaches to manage pharmaceutical expenditures in Europe. It is a must-read for those who seek to understand and navigate the changing regulatory environment for medicines in the European Union." Bernie O'Brien, McMaster University, Canada. The rising cost of pharmaceutical expenditures in many European countries is of concern to governments required to make effective use of health care budgets. Taking a broad perspective that encompasses institutional, political and supranational aspects of pharmaceutical regulation, this book examines approaches used to manage pharmaceutical expenditure across Europe and what impact these strategies have had on efficiency, quality, equity and cost of pharmaceutical care. Regulating Pharmaceuticals in Europe is an important book for students of health policy, regulation and management, and for health managers and policy makers. The editors: Elias Mossialos is Brian Abel-Smith Professor of Health Policy at the London School of Economics and Political Science and a Research Director of the European Observatory on Health Systems and Policies. Monique Mrazek is a Health Economist (Europe and Central Asia region) for the World Bank and formerly a Research Officer in Health Economics for the European Observatory on Health Systems and Policies. Tom Walley is Professor of Clinical Pharmacology at the University of Liverpool and Director of the UK National Health Technology Assessment Programme. Contributors: Julia Abelson, Christa Altenstetter, Vittorio Bertele', Christine Bond, Marcel L. Bouvy, Colin Bradley, Steve Chapman, Anna Dixon, Michael Drummond, Pierre Durieux, Edzard Ernst, Armin Fidler, Eric Fortess, Richard Frank, Silvio Garattini, Leigh Hancher, Ebba Holme Hansen, Steve Hudson, Kees de Jonchere, Panos Kanavos, Sjoerd Kooiker, Jean-Marc Leder, Graham Lewis, Donald W. Light, Alistair McGuire, Elias Mossialos, Monique Mrazek, Maria Pia Orru', Govin Permanand, Guenka Petrova, Munir Pirmohamed, Dennis Ross-Degnan, Frans Rutten, Steven Soummerai, David Taylor, Sarah Thomson, Tom Walley.

Advertising Theory Shelly Rodgers 2019-04-15 Advertising Theory provides detailed and current explorations of key theories in the advertising discipline. The volume gives a working knowledge of the primary theoretical approaches of advertising, offering a comprehensive synthesis of the vast literature in the area. Editors Shelly Rodgers and Esther Thorson have developed this volume as a forum in which to compare, contrast, and evaluate advertising theories in a comprehensive and structured presentation. With new chapters on forms of advertising, theories, and concepts, and an emphasis on the role of new technology, this new edition is uniquely positioned to provide detailed overviews of advertising theory. Utilizing McGuire's persuasion matrix as the structural model for each chapter, the text offers a wider lens through which to view the phenomenon of advertising as it operates within various environments. Within each area of advertising theory—and across advertising contexts—both traditional and non-traditional approaches are addressed, including electronic word-of-mouth advertising, user-generated advertising, and social media advertising contexts. This new edition includes a balance of theory and practice that will help provide a working knowledge

of the primary theoretical approaches and will help readers synthesize the vast literature on advertising with the in-depth understanding of practical case studies and examples within every chapter. It also looks at mobile advertising in a broader context beyond the classroom and explores new areas such as native advertising, political advertising, mobile advertising, and digital video gaming.

NCHRP Report 684 2011

GECCo - German-English Contrasts in Cohesion Kerstin Kunz 2021-10-25 In contrastive linguistics English-German, there is a tradition of accounting for contrasts with respect to grammar, and to a lesser extent, for lexis and phonetics. Moving on to discourse and text, there is a sizeable body of literature on cohesive patterns in English and German respectively - but very little in terms of a comparison. The latter, though, would be of particular interest for language learners, translators and, of course, linguists. The proposed book attempts to close this gap, based on a number of years of corpus-based study into variation and cohesion in the two languages. While there is an overall focus on the language contrast, we shall for each of the two languages also investigate variation between several different registers language-internally, and between written and spoken mode in particular. For each of the five major types of cohesion (co-reference, substitution, ellipsis, conjunctive relations and lexical cohesion), overviews will be given of contrasts in the system and of contrastive frequencies in instantiated text. The book should thus be relevant for language teaching, translation and generally corpus-based work on English and German, in terms of results and methodology.

Backstage Leadership Charles Galunic 2020-06-10 Most of us would recognize a star leader by their charisma, emotional intelligence and public communication prowess. What is truly impressive but often overlooked is the silent work of leadership that garners real results. Exercising influence in a complex and global organization - whilst also shaping and executing strategies across borders in a disruptive age - is the true mark of success as a leader. Backstage Leadership takes a comprehensive look at the background processes that leaders must master in order to shape the culture, direction and capability of a successful company. With an emphasis on strategy, the author provides an integrated toolkit for developing your knowledge and skills as a 'backstage leader.' You will learn how to: Mobilize people towards new strategic directions Scan your business environment for threats and disruptive forces Diagnose and help to shape the culture of your organization Develop talent and capabilities towards a specific goal. Focusing on the key and consistent underlying processes of leadership, this book is essential reading for managers who wish to bring focus and coherence to their leadership role and integrate themselves within the engine of the organization.

Scientific and Technical Aerospace Reports 1975 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Problems and Solutions on Thermodynamics and Statistical Mechanics Yung-kuo Lim 1990 Volume 5.

Language Comprehension in Ape and Child E. Sue Savage-Rumbaugh 1993

Pressure Vessel Design Manual Dennis R. Moss 2012-12-31 Pressure vessels are closed containers designed to hold gases or liquids at a pressure substantially different from the ambient pressure. They have a variety of applications in industry, including in oil refineries, nuclear reactors, vehicle airbrake reservoirs, and more. The pressure differential with such vessels is dangerous, and due to the risk of accident and fatality around their use, the design, manufacture, operation and inspection of pressure vessels is regulated by engineering authorities and guided by legal codes and standards. Pressure Vessel Design Manual is a solutions-focused guide to the many problems and technical challenges involved in the design of pressure vessels to match stringent standards and codes. It brings together otherwise scattered information and explanations into one easy-to-use resource to minimize research and take readers from problem to solution in the most direct manner possible. Covers almost all problems that a working pressure vessel designer can expect to face, with 50+ step-by-step design procedures including a wealth of equations, explanations and data Internationally recognized, widely referenced and trusted, with 20+ years of use in over 30 countries making it an accepted industry standard guide Now revised with up-to-date ASME, ASCE and API regulatory code information, and dual unit coverage for increased ease of international use

An Urban History of China Chonglan Fu 2019-07-25 This book considers urban development in China, highlighting links between China's history and civilization and the rapid evolution of its urban forms. It explores the early days of urban dwelling in China, progressing to an analysis of residential environments in the industrial age. It also examines China's modern and postmodern architecture, considered as derivative or lacking spiritual meaning or personality, and showcases how China's traditional culture underpins the emergence of China's modern cities. Focusing on the notion of "courtyard spirit" in China, it offers a study of the urban public squares central to Chinese society, and examines the disruption of the traditional Square model and the rise and growth of new architectural models.

Diesel Engine Maintenance Training Manual Bureau of Ships 2015-01-15 Very complete and comprehensive manual for the service and repair of all large Marine Diesel Engines. Reprint of the original book from 1946.

Keys to Play Roger Moseley 2016-10-28 A free ebook version of this title is available through Luminos, University of California Press's Open Access publishing program for monographs. Visit www.luminosoa.org to learn more. How do keyboards make music playable? Drawing on theories of media, systems, and cultural techniques, Keys to Play spans Greek myth and contemporary Japanese digital games to chart a genealogy of musical play and its animation via improvisation, performance, and recreation. As a paradigmatic digital interface, the keyboard forms a field of play on which the book's diverse objects of inquiry—from clavichords to PCs and eighteenth-century musical dice games to the latest rhythm-action titles—enter into analogical relations. Remapping the keyboard's topography by way of Mozart and Super Mario, who head an expansive cast of historical and virtual actors, Keys to Play invites readers to unlock ludic dimensions of music that are at once old and new.

The Vehicle Routing Problem Paolo Toth 2002

Myth and Philosophy in Platonic Dialogues Omid Tofighian 2016-11-15 This book rethinks Plato's creation and use of myth by drawing on theories and methods from myth

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studies, religious studies, literary theory and related fields. Individual myths function differently depending on cultural practice, religious context or literary tradition, and this interdisciplinary study merges new perspectives in Plato studies with recent scholarship and theories pertaining to myth. Significant overlaps exist between prominent modern theories of myth and attitudes and approaches in studies of Plato's myths. Considering recent developments in myth studies, this book asks new questions about the evaluation of myth in Plato. Its appreciation of the historical conditions shaping and directing the study of Plato's myths opens deeper philosophical questions about the relationship between philosophy and myth and the relevance of myth studies to philosophical debates. It also extends the discussion to address philosophical questions and perspectives on the distinction between argument and narrative.

Genetic Algorithms in Search, Optimization, and Machine Learning David Edward Goldberg 1989 A gentle introduction to genetic algorithms. Genetic algorithms revisited: mathematical foundations. Computer implementation of a genetic algorithm. Some applications of genetic algorithms. Advanced operators and techniques in genetic search. Introduction to genetics-based machine learning. Applications of genetics-based machine learning. A look back, a glance ahead. A review of combinatorics and elementary probability. Pascal with random number generation for fortran, basic, and cobol programmers. A simple genetic algorithm (SGA) in pascal. A simple classifier system(SCS) in pascal. Partition coefficient transforms for problem-coding analysis.

Modeling, Design, Construction, and Operation of Power Generators with Solid Oxide Fuel Cells Jakub Kupecki 2018-12-14 The book summarizes the current state of the solid oxide fuel cell (SOFC) technology in power generation applications. It describes the single cells, SOFC stacks, micro-combined heat and power systems, large-scale stationary power generators and polygeneration units. The principles of modeling, simulation and controls of power systems with solid oxide fuel cells are presented and discussed. Authors provide theoretical background of the technology followed by the essential insights into the integrated power systems. Selected aspects of the design, construction and operation of power units in range from single kilowatts to hundreds of kilowatts are presented. Finally, the book reports the selected studies on prototype systems which have been constructed in Europe. The book discusses the theoretical and practical aspects of operation of power generators with solid oxide fuel cells including fabrication of cells, design of stacks, system modeling, simulation of stationary and non-stationary operation of systems, fuel preparation and controls.

Gregory of Nyssa Saint Gregory (of Nyssa) 2007 This book presents 37 letters of Gregory of Nyssa (c. 335-379) translated into English and equipped with scholarly notes. It includes a biography, testimonia from Basil and Gregory Nazianzen, 30 letters established by G. Pasquali and seven additional letters reassigned to Gregory.

The Mathematica GuideBook for Programming Michael Trott 2013-12-21 This comprehensive, detailed reference provides readers with both a working knowledge of Mathematica in general and a detailed knowledge of the key aspects needed to create the fastest, shortest, and most elegant implementations possible. It gives users a deeper understanding of Mathematica by instructive implementations, explanations, and examples from a range of disciplines at varying levels of complexity. The three volumes -- Programming, Graphics, and Mathematics, total 3,000 pages and contain more than 15,000

Mathematica inputs, over 1,500 graphics, 4,000+ references, and more than 500 exercises. This first volume begins with the structure of Mathematica expressions, the syntax of Mathematica, its programming, graphic, numeric and symbolic capabilities. It then covers the hierarchical construction of objects out of symbolic expressions, the definition of functions, the recognition of patterns and their efficient application, program flows and program structuring, and the manipulation of lists. An indispensable resource for students, researchers and professionals in mathematics, the sciences, and engineering.

The Final-Over-Final Condition Michelle Sheehan 2017-10-20 An examination of the evidence for and the theoretical implications of a universal word order constraint, with data from a wide range of languages. This book presents evidence for a universal word order constraint, the Final-over-Final Condition (FOFC), and discusses the theoretical implications of this phenomenon. FOFC is a syntactic condition that disallows structures where a head-initial phrase is contained in a head-final phrase in the same extended projection/domain. The authors argue that FOFC is a linguistic universal, not just a strong tendency, and not a constraint on processing. They discuss the effects of the universal in various domains, including the noun phrase, the adjective phrase, the verb phrase, and the clause. The book draws on data from a wide range of languages, including Hindi, Turkish, Basque, Finnish, Afrikaans, German, Hungarian, French, English, Italian, Romanian, Arabic, Hebrew, Mandarin, Pontic Greek, Bagirmi, Dholuo, and Thai. FOFC, the authors argue, is important because it is the only known example of a word order asymmetry pertaining to the order of heads. As such, it has significant repercussions for theories connecting the narrow syntax to linear order.

Employability & Competences: Innovative Curricula for New Professions

Review Questions and Answers for Veterinary Technicians Thomas P. Colville 2014-06-03 With more than 5,000 practice questions in the book and online, *Review Questions and Answers for Veterinary Technicians, 4th Edition - Revised Reprint* prepares you for success on the Veterinary Technician National Exam (VTNE). Subject areas covered include: pharmacology, surgical preparation and assisting, dentistry, laboratory procedures, animal nursing, diagnostic imaging, and anesthesiology. A new Evolve website lets you answer questions in study mode, quiz mode, or as a VTNE-style, 200-question practice exam with instant feedback. Written by veterinary technology educator Thomas Colville, this engaging review gives you the practice and the confidence you need to master the VTNE. More than 5,000 review questions in the book prepare you to pass the VTNE by testing factual knowledge, reasoning skills, and clinical judgment in the seven primary subject areas of veterinary technology. Multiple-choice question format mirrors the format used in the VTNE. Answers include rationales for correct and incorrect answers, and are provided at the back of the book. NEW! An Evolve companion website contains 5,000 questions and a practice exam that simulates the computer-based VTNE testing environment, and provides instant feedback and a test score.

Clostridia Hubert Bahl 2001-10-15 Clostridia have a high biotechnological potential, although they are generally still regarded more as a group of pathogenic microorganisms. They undertake a broad variety of biocatalytic reactions some of which are unique and of use in the chemical and biotechnology industry for the production of chemicals or for biopharmaceutical purposes. Even some of the clostridial toxins are of medical relevance and

can be used as therapeutic agents; The book presents the biology, pyhsiology, and genetics, including genome projects of Clostridia and highlights their potential for industrial and medical applications. It is mostly based on research during the last decade which has brought significant progress in the field and outlines future perspectives of industrial interest.

Fundamentals of Machine Learning Using Python Euan Russano 2019-11 Fundamentals of Machine Learning discusses the basics of python, use of python in computing and provides a general outlook on machine learning. This book provides an insight into concepts such as linear regression with one variable, linear algebra, and linear regression with multiple inputs. The classification with logistics regression model, regularization, neural networks, decision trees are explained in this book. The introduction to several concepts of machine learning such as component analysis, classification using k-Nearest Algorithm, k Means Clustering, computing with Tensor flow and natural language processing have been explained. This book explains the fundamental concepts of machine learning.

Applied Informatics Hector Florez 2019-10-26 This book constitutes the thoroughly refereed papers of the Second International Conference on Applied Informatics, ICAI 2019, held in Madrid, Spain, in November 2019. The 37 full papers and one short paper were carefully reviewed and selected from 98 submissions. The papers are organized in topical sections on bioinformatics; data analysis; decision systems; health care information systems; IT Architectures; learning management systems; robotic autonomy; security services; socio-technical systems; software design engineering.

Small Animal Surgical Nursing - E-Book Marianne Tear 2021-01-28 Master the veterinary technician's role and skills in surgical assisting! Small Animal Surgical Nursing, 4th Edition helps you learn the protocols and techniques you need to work together with the veterinarian as a smoothly functioning surgical team. Clear guidelines are provided in areas such as surgical instruments and procedures, anesthesia, patient monitoring, preoperative and postoperative care of the animals, pain management, and client education. This edition is updated throughout and includes timed instrument identification exercises on the Evolve website. Written by well-known educator Marianne Tear, this comprehensive resource ensures that you are highly competent in performing all of the vet tech's surgical responsibilities. Coverage of small animal surgical nursing provides a full review of the role and responsibilities of the veterinary technician in the surgical setting, including sterilization, protocols, gowning, gloving, anesthesia, wound management, and care of the animals before and after surgery. Focus on exceptional clinical skills and practice tips draws from the author's real-world experiences of what is most commonly encountered in the clinical setting. Nearly 500 full-color illustrations and photographs show surgical equipment, instruments, sterile techniques, suturing techniques, and wound management. Attention to detail ensures understanding of the skills covered in required veterinary technician surgical nursing courses. Learning Objectives and Key Terms at the beginning of each chapter identify the material that should be mastered in the upcoming chapter. Key Points and Review Questions at the end of each chapter facilitate study and reinforce understanding. Quick Reference for Common IV Infusions and Analgesic Protocols appendix helps students learn to work quickly and efficiently. NEW! Updated content and new protocols and skills ensure that students have the latest information available. NEW! Updated and additional Review Questions include multiple-choice, listing, and open-ended questions that challenge students to apply the knowledge they have learned in each chapter.

Professional Node.js Pedro Teixeira 2012-10-01 Learn to build fast and scalable software in JavaScript with Node.js Node.js is a powerful and popular new framework for writing scalable network programs using JavaScript. This no nonsense book begins with an overview of Node.js and then quickly dives into the code, core concepts, and APIs. In-depth coverage pares down the essentials to cover debugging, unit testing, and flow control so that you can start building and testing your own modules right away. Covers node and asynchronous programming main concepts Addresses the basics: modules, buffers, events, and timers Explores streams, file systems, networking, and automated unit testing Goes beyond the basics, and shares techniques and tools for debugging, unit testing, and flow control If you already know JavaScript and are curious about the power of Node.js, then this is the ideal book for you.

Zen Sand Victor Sogen Hori 2003-02-28 Zen Sand is a classic collection of verses aimed at aiding practitioners of kôan meditation to negotiate the difficult relationship between insight and language. As such it represents a major contribution to both Western Zen practice and English-language Zen scholarship. In Japan the traditional Rinzai Zen kôan curriculum includes the use of jakugo, or "capping phrases." Once a monk has successfully replied to a kôan, the Zen master orders the search for a classical verse to express the monk's insight into the kôan. Special collections of these jakugo were compiled as handbooks to aid in that search. Until now, Zen students in the West, lacking this important resource, have been severely limited in carrying out this practice. Zen Sand combines and translates two standard jakugo handbooks and opens the way for incorporating this important tradition fully into Western Zen practice. For the scholar, Zen Sand provides a detailed description of the jakugo practice and its place in the overall kôan curriculum, as well as a brief history of the Zen phrase book. This volume also contributes to the understanding of East Asian culture in a broader sense.

Personal Financial Literacy Jeff Madura 2013-01-29 Revised edition of author's Personal financial literacy, copyrighted 2010.

Theory, Design, and Applications of Unmanned Aerial Vehicles A. R. Jha, Ph.D. 2016-11-18 This book provides a complete overview of the theory, design, and applications of unmanned aerial vehicles. It covers the basics, including definitions, attributes, manned vs. unmanned, design considerations, life cycle costs, architecture, components, air vehicle, payload, communications, data link, and ground control stations. Chapters cover types and civilian roles, sensors and characteristics, alternative power, communications and data links, conceptual design, human machine interface, sense and avoid systems, civil airspace issues and integration efforts, navigation, autonomous control, swarming, and future capabilities.