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Handbook of Human Oocyte Cryopreservation

Pearson Higher Ed

For all courses in soils and foundations, geotechnical engineering, soil mechanics, and foundation engineering. Ideal for beginners, Soils and Foundations presents all essential aspects of soils and foundations in as simple and direct a manner as possible. Filled with worked examples, step-by-step solutions, and hands-on practice problems, it emphasises design and practical applications supported by basic theory. Throughout, the authors promote learning through the extensive use of diagrams, charts, and illustrations. Coverage includes: engineering properties of soils: soil exploration, compaction, stabilisation, and consolidation; water in soil; subsurface stresses; settlement of structures; shear strength; shallow and deep foundations; lateral earth pressure; retaining structures, and stability analysis of slopes. This edition's new coverage includes Pressuremeter and Dilatometer tests, water flow characterisation with Bernoulli's Theorem, dewatering, uplift pressure on dams, and subsurface stresses caused by overlying soil masses.

Robust Control ASCE Press

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

Computer Vision: A Modern Approach John Wiley & Sons

Appropriate for upper-division undergraduate- and graduate-level courses in computer vision found in departments of Computer Science, Computer Engineering and Electrical Engineering. This textbook provides the most complete treatment of modern computer vision methods by two of the leading authorities in the

field. This accessible presentation gives both a general view of the entire computer vision enterprise and also offers sufficient detail for students to be able to build useful applications. Students will learn techniques that have proven to be useful by first-hand experience and a wide range of mathematical methods.

Modern Control Systems John Wiley & Sons

With this self-contained and comprehensive text, students will gain a detailed understanding of the fundamental concepts and major principles of photonics. Assuming only a basic background in optics, readers are guided through key topics such as the nature of optical fields, the properties of optical materials, and the principles of major photonic functions regarding the generation, propagation, coupling, interference, amplification, modulation, and detection of optical waves or signals. Numerous examples and problems are provided throughout to enhance understanding, and a solutions manual containing detailed solutions and explanations is available online for instructors. This is the ideal resource for electrical engineering and physics undergraduates taking introductory, single-semester or single-quarter courses in photonics, providing them with the knowledge and skills needed to progress to more advanced courses on photonic devices, systems and applications.

Principles of Photonics National Academies Press

Tough Test Questions? Missed Lectures? Not Enough Time?

Fortunately, there's Schaum's. This all-in-one-package includes more than 600 fully solved problems, examples, and practice exercises to sharpen your problem-solving skills. Plus, you will have access to 20 detailed videos featuring instructors who explain the most commonly tested problems--it's just like having your own virtual tutor! You'll find everything you need to build confidence, skills, and knowledge for the highest score possible. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. This Schaum's Outline gives you 622 fully solved problems Extra practice on topics such as buoyancy and flotation, complex pipeline systems, fluid machinery, flow in open channels, and more Support for all the major textbooks for fluid mechanics and hydraulics courses Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time--and get your best test scores! Schaum's Outlines--Problem Solved.

Pipeline Engineering (2004) McGraw Hill Professional

Technology/Engineering/Mechanical A bestselling MEMS text...now better than ever. An engineering design approach to Microelectromechanical Systems, MEMS and Microsystems remains the only available text to cover both the electrical and the mechanical aspects of the technology. In the five years since the publication of the first edition, there have been significant changes in the science and technology of miniaturization, including microsystems technology and nanotechnology. In response to the increasing needs of engineers to acquire basic knowledge and experience in these areas, this popular text has been carefully updated, including an entirely new section on the introduction of nanoscale engineering. Following a brief introduction to the history and evolution of nanotechnology, the author covers the fundamentals in the engineering design of nanostructures, including fabrication techniques for producing nanoproducts,

engineering design principles in molecular dynamics, and fluid flows and heat transmission in nanoscale substances. Other highlights of the Second Edition include: * Expanded coverage of microfabrication plus assembly and packaging technologies * The introduction of microgyroscopes, miniature microphones, and heat pipes * Design methodologies for thermally actuated multilayered device components * The use of popular SU-8 polymer material Supported by numerous examples, case studies, and applied problems to facilitate understanding and real-world application, the Second Edition will be of significant value for both professionals and senior-level mechanical or electrical engineering students.

Mechanical, Materials and Manufacturing Engineering Soils and Foundations

Proceedings of the 2011 International Conference on Mechanical Materials and Manufacturing Engineering (ICMMME 2011), June 20-22, 2011, Nanchang, China. Volume is indexed by Thomson Reuters CPCI-S (WoS). The objective of ICMMME 2011, with its more than 427 papers, was to provide a forum for researchers, educators, engineers and government officials involved in the general areas of mechanical materials and manufacturing engineering; thus permitting them to disseminate their latest research results and to exchange views on the future research directions of these fields.

The Suàn Shù Sh? Cambridge University Press

This book comprehensively covers the topic of recommender systems, which provide personalized recommendations of products or services to users based on their previous searches or purchases. Recommender system methods have been adapted to diverse applications including query log mining, social networking, news recommendations, and computational advertising. This book synthesizes both fundamental and advanced topics of a research area that has now reached maturity. The chapters of this book are organized into three categories: Algorithms and evaluation: These chapters discuss the fundamental algorithms in recommender systems, including collaborative filtering methods, content-based methods, knowledge-based methods, ensemble-based methods, and evaluation. Recommendations in specific domains and contexts: the context of a recommendation can be viewed as important side information that affects the recommendation goals. Different types of context such as temporal data, spatial data, social data, tagging data, and trustworthiness are explored. Advanced topics and applications: Various robustness aspects of recommender systems, such as shilling systems, attack models, and their defenses are discussed. In addition, recent topics, such as learning to rank, multi-armed bandits, group systems, multi-criteria systems, and active learning systems, are introduced together with applications. Although this book primarily serves as a textbook, it will also appeal to industrial practitioners and researchers due to its focus on applications and references. Numerous examples and exercises have been provided, and a solution manual is available for instructors.

Soil Properties Prentice Hall

This open access book provides an overview of the recent advances in representation learning theory, algorithms and applications for natural language processing (NLP). It is divided into three parts. Part I presents the representation learning techniques for multiple language entries, including words, phrases, sentences and documents. Part II then introduces the representation techniques for those objects that are closely related to NLP, including entity-based world knowledge, sememe-based linguistic knowledge, networks, and cross-modal

entries. Lastly, Part III provides open resource tools for representation learning techniques, and discusses the remaining challenges and future research directions. The theories and algorithms of representation learning presented can also benefit other related domains such as machine learning, social network analysis, semantic Web, information retrieval, data mining and computational biology. This book is intended for advanced undergraduate and graduate students, post-doctoral fellows, researchers, lecturers, and industrial engineers, as well as anyone interested in representation learning and natural language processing.

Fundamentals of Building Construction Cengage Learning
Data Mining: Concepts and Techniques provides the concepts and techniques in processing gathered data or information, which will be used in various applications. Specifically, it explains data mining and the tools used in discovering knowledge from the collected data. This book is referred as the knowledge discovery from data (KDD). It focuses on the feasibility, usefulness, effectiveness, and scalability of techniques of large data sets. After describing data mining, this edition explains the methods of knowing, preprocessing, processing, and warehousing data. It then presents information about data warehouses, online analytical processing (OLAP), and data cube technology. Then, the methods involved in mining frequent patterns, associations, and correlations for large data sets are described. The book details the methods for data classification and introduces the concepts and methods for data clustering. The remaining chapters discuss the outlier detection and the trends, applications, and research frontiers in data mining. This book is intended for Computer Science students, application developers, business professionals, and researchers who seek information on data mining. Presents dozens of algorithms and implementation examples, all in pseudo-code and suitable for use in real-world, large-scale data mining projects Addresses advanced topics such as mining object-relational databases, spatial databases, multimedia databases, time-series databases, text databases, the World Wide Web, and applications in several fields Provides a comprehensive, practical look at the concepts and techniques you need to get the most out of your data

Water Engineering with the Spreadsheet John Wiley & Sons
Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

Schaum's Outline of Fluid Mechanics and Hydraulics, 4th Edition Springer Nature

The first book to provide a comprehensive overview of the subject rather than a collection of papers. The author is a recognized authority in the field as well as an outstanding teacher lauded for his ability to convey these concepts clearly to many different audiences.

A handy reference for practitioners in the field.

Geotechnical Engineering and Soil Testing Pearson Education India

Today's planet faces several critical problems such as resource depletion, environmental destruction, and climate change that affect all areas of life as we know it. Figuring out how to address these issues and prioritizing Earth's health has been at the forefront of study as it is a key issue that affects us all. One element that requires further investigation is algae regarding its potential for creating a more sustainable future across the food, energy, and environmental sectors. The Handbook of Research on Algae as a Sustainable Solution for Food, Energy, and the Environment provides insight into the biotechnological and biorefinery aspects of algae together with their unique applications in the agriculture and pharmaceutical industry. Furthermore, this book considers the biological and biotechnological processes happening in the cultivation and harvesting of algae, DNA sequencing, and genomics of algae. Moreover, it examines the bio-remediation aspects of algae and its utilization to produce biofuels, methane, hydrogen, and other useful renewable sources of energy, thereby contributing to environmental sustainability. Covering topics such as cell biology and food science, this reference work is ideal for academicians, researchers, industry professionals, scholars, practitioners, instructors, and students.

Fundamentals of Modern Manufacturing 2e Update With Manufacturing Processes Sampler Dvd Set Pearson Education India

"This introductory text offers a practical approach to soil mechanics and foundations, with application to real-world design solutions for civil technology and engineering. This material is presented in a clear, direct style with just enough mathematics to support the design concepts. Several new illustrations have been added to enhance student comprehension."--BOOK JACKET.

2500 Solved Problems in Fluid Mechanics and Hydraulics Springer
MECHANICS OF FLUIDS presents fluid mechanics in a manner that helps students gain both an understanding of, and an ability to analyze the important phenomena encountered by practicing engineers. The authors succeed in this through the use of several pedagogical tools that help students visualize the many difficult-to-understand phenomena of fluid mechanics. Explanations are based on basic physical concepts as well as mathematics which are accessible to undergraduate engineering students. This fourth edition includes a Multimedia Fluid Mechanics DVD-ROM which harnesses the interactivity of multimedia to improve the teaching and learning of fluid mechanics by illustrating fundamental phenomena and conveying fascinating fluid flows. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Data Mining: Concepts and Techniques CRC Press

Comprehensive and up to date coverage of robust control theory and its application • Presented in a well-planned and logical way • Written by a respected leading author, with extensive experience in robust control • Accompanying website provides solutions manual and other supplementary material

Mathematics for Machine Learning Springer Nature

Reflecting the increasing importance of ceramics, polymers, composites, and silicon in manufacturing, **Fundamentals of Modern Manufacturing Second Edition** provides a comprehensive treatment of these other materials and their processing, without sacrificing its solid coverage of metals and metal processing. Topics include such modern processes as rapid prototyping, microfabrication, high speed machining and nanofabrication. Additional features include: Emphasis on how material properties relate to the process variables in a given process. Emphasis on manufacturing science and quantitative engineering

analysis of manufacturing processes. More than 500 quantitative problems are included as end of chapter exercises. Multiple choice quizzes in all but one chapter (approximately 500 questions). Coverage of electronics manufacturing, one of the most commercially important areas in today's technology oriented economy. Historical notes are included to introduce manufacturing from the earliest materials and processes, like woodworking, to the most recent.

Recommender Systems Handbook Cambridge University Press
Soils and Foundations Soils and Foundations Prentice Hall
Introduction to Cryptography With Coding Theory Cambridge University Press

Introduces students to the fundamental concepts of computer programming languages and provides them with the tools necessary to evaluate contemporary and future languages. An in-depth discussion of programming language structures, such as syntax and lexical and syntactic analysis, also prepares students to study compiler design. The Eleventh Edition maintains an up-to-date discussion on the topic with the removal of outdated languages such as Ada and Fortran. The addition of relevant new topics and examples such as reflection and exception handling in Python and Ruby add to the currency of the text. Through a critical analysis of design issues of various program languages, **Concepts of Programming Languages** teaches students the essential differences between computing with specific languages. Robert W. Sebesta is Associate Professor Emeritus, Computer Science Office, UCCS, University of Colorado at Colorado Springs. -- Publisher's note.

Field and Wave Electromagnetics John Wiley & Sons Incorporated

Pipeline engineering has struggled to develop as a single field of study due to the wide range of industries and government organizations using different types of pipelines for all types of solids, liquids, and gases. This fragmentation has impeded professional development, job mobility, technology transfer, the diffusion of knowledge, and the movement of manpower. No single, authoritative course or book has existed to unite practitioners. In response, **Pipeline Engineering** covers the essential aspects and types of pipeline engineering in a single volume. This work is divided into two parts. Part I, **Pipe Flows**, delivers an integrated treatment of all variants of pipe flow including incompressible and compressible, Newtonian and non-Newtonian, slurry and multiphase flows, capsule flows, and pneumatic transport of solids. Part II, **Engineering Considerations**, summarizes the equipment and methods required for successful planning, design, construction, operation, and maintenance of pipelines. By addressing the fundamentals of pipeline engineering-concepts, theories, equations, and facts-this groundbreaking text identifies the cornerstones of the discipline, providing engineers with a springboard to success in the field. It is a must-read for all pipeline engineers.