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The authors of this timely reference provide an updated and global view on ocean wave energy conversion – and they do so for wave energy developers as well as for students and professors. The book is orientated to the practical solutions that this new industry has found so far and the problems that any device needs to face. It describes the actual principles applied to machines that convert wave power to electricity and examines state-of-the-art modern systems.

Emily Post's Etiquette, 19th Edition Manners for Today HarperCollins

This market-leading introduction to probability features exceptionally clear explanations of the mathematics of probability theory and explores its many diverse applications through numerous interesting and motivational examples. The outstanding problem sets are a hallmark feature of this book. Provides clear, complete explanations to fully explain mathematical concepts. Features subsections on the probabilistic method and the maximum-minimums identity. Includes many new examples relating to DNA matching, utility, finance, and applications of the probabilistic method. Features an intuitive treatment of probability—intuitive explanations follow many examples. The Probability Models Disk included with each copy of the book, contains six probability models that are referenced in the book and allow readers to quickly and easily perform calculations and simulations.

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Serving as an all-in-one guide to the entire field of coatings technology, this encyclopedic reference covers a diverse range of topics-including basic concepts, coating types, materials, processes, testing and applications-summarizing both the latest developments and standard coatings methods. Take advantage of the insights and experience of over

Scientific Python is a significant public domain alternative to expensive proprietary software packages. This book teaches from scratch everything the working scientist needs to know using copious, downloadable, useful and adaptable code snippets. Readers will discover how easy it is to implement and test non-trivial mathematical algorithms and will be guided through the many freely available add-on modules. A range of examples, relevant to many different fields, illustrate the language's capabilities. The author also shows how to use pre-existing legacy code (usually in Fortran77) within the Python environment, thus avoiding the need to master the original code. In this new edition, several chapters have been re-written to reflect the IPython notebook style. With an extended index, an entirely new chapter discussing SymPy and a substantial increase in the number of code snippets, researchers and research students will be able to quickly acquire all the skills needed for using Python effectively. University Physics is designed for the two- or three-semester calculus-based physics course. The text has been developed to meet the scope and sequence of most university physics courses and provides a foundation for a career in mathematics,

science, or engineering. The book provides an important opportunity for students to learn the core concepts of physics and understand how those concepts apply to their lives and to the world around them. Due to the comprehensive nature of the material, we are offering the book in three volumes for flexibility and efficiency. Coverage and Scope Our University Physics textbook adheres to the scope and sequence of most two- and three-semester physics courses nationwide. We have worked to make physics interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. With this objective in mind, the content of this textbook has been developed and arranged to provide a logical progression from fundamental to more advanced concepts, building upon what students have already learned and emphasizing connections between topics and between theory and applications. The goal of each section is to enable students not just to recognize concepts, but to work with them in ways that will be useful in later courses and future careers. The organization and pedagogical features were developed and vetted with feedback from science educators dedicated to the project.

VOLUME I Unit 1: Mechanics Chapter 1: Units and Measurement Chapter 2: Vectors Chapter 3: Motion Along a Straight Line Chapter 4: Motion in Two and Three Dimensions Chapter 5: Newton's Laws of Motion Chapter 6: Applications of Newton's Laws Chapter 7: Work and Kinetic Energy Chapter 8: Potential Energy and Conservation of Energy Chapter 9: Linear Momentum and Collisions Chapter 10: Fixed-Axis Rotation Chapter 11: Angular Momentum Chapter 12:

Static Equilibrium and Elasticity Chapter 13: Gravitation Chapter 14: Fluid Mechanics
Unit 2: Waves and Acoustics Chapter 15: Oscillations Chapter 16: Waves Chapter 17:
Sound

This is a nonfiction children's book about octopuses.

Principles of Management is designed to meet the scope and sequence requirements of the introductory course on management. This is a traditional approach to management using the leading, planning, organizing, and controlling approach. Management is a broad business discipline, and the Principles of Management course covers many management areas such as human resource management and strategic management, as well behavioral areas such as motivation. No one individual can be an expert in all areas of management, so an additional benefit of this text is that specialists in a variety of areas have authored individual chapters.

This book features a special subsection of Nanomedicine, an application of nanotechnology to achieve breakthroughs in healthcare. It exploits the improved and often novel physical, chemical and biological properties of materials only existent at the nanometer scale. As a consequence of small scale, nanosystems in most cases are efficiently uptaken by cells and appear to act at the intracellular level. Nanotechnology has the potential to improve diagnosis, treatment and

follow-up of diseases, and includes targeted drug delivery and regenerative medicine; it creates new tools and methods that impact significantly upon existing conservative practices. This volume is a collection of authoritative reviews. In the introductory section we define the field (intracellular delivery). Then, the fundamental routes of nanodelivery devices, cellular uptake, types of delivery devices, particularly in terms of localized cellular delivery, both for small drug molecules, macromolecular drugs and genes; at the academic and applied levels, are covered. The following section is dedicated to enhancing delivery via special targeting motifs followed by the introduction of different types of intracellular nanodelivery devices (e.g. a brief description of their chemistry) and ways of producing these different devices. Finally, we put special emphasis on particular disease states and on other biomedical applications, whilst diagnostic and sensing issues are also included. Intracellular delivery / therapy is a highly topical which will stir great interest. Intracellular delivery enables much more efficient drug delivery since the impact (on different organelles and sites) is intracellular as the drug is not supplied externally within the blood stream. There is great potential for targeted delivery with improved localized delivery and efficacy.

A history of the industrial and construction machines built by the International

Harvester Company along with Hough and Dresser.

Offers the latest insights into the fundamental biology and pathogenesis of *A. fumigatus*. Provides a combined synopsis of both *A. fumigatus* and its diseases and therapies. Encompasses the most up-to-date knowledge to serve as a resource guide for the next decade of study on this organism and the many diseases it causes. Covers the fundamental biology of *A. fumigatus* including specific features in genetics, biochemistry, and cell biology that can explain the virulence of this opportunistic pathogen. Discusses the wide range of clinical infection, plus the latest diagnostic and treatment strategies, in specific patient populations.

This engaging and clearly written textbook/reference provides a must-have introduction to the rapidly emerging interdisciplinary field of data science. It focuses on the principles fundamental to becoming a good data scientist and the key skills needed to build systems for collecting, analyzing, and interpreting data. The Data Science Design Manual is a source of practical insights that highlights what really matters in analyzing data, and provides an intuitive understanding of how these core concepts can be used. The book does not emphasize any particular programming language or suite of data-analysis tools, focusing instead on high-level discussion of important design principles. This easy-to-read text

ideally serves the needs of undergraduate and early graduate students embarking on an “Introduction to Data Science” course. It reveals how this discipline sits at the intersection of statistics, computer science, and machine learning, with a distinct heft and character of its own. Practitioners in these and related fields will find this book perfect for self-study as well. Additional learning tools: Contains “War Stories,” offering perspectives on how data science applies in the real world Includes “Homework Problems,” providing a wide range of exercises and projects for self-study Provides a complete set of lecture slides and online video lectures at www.data-manual.com Provides “Take-Home Lessons,” emphasizing the big-picture concepts to learn from each chapter Recommends exciting “Kaggle Challenges” from the online platform Kaggle Highlights “False Starts,” revealing the subtle reasons why certain approaches fail Offers examples taken from the data science television show “The Quant Shop” (www.quant-shop.com)

This book provides an overview of the state of the art in research on and treatment of gambling disorder. As a behavioral addiction, gambling disorder is of increasing relevance to the field of mental health. Research conducted in the last decade has yielded valuable new insights into the characteristics and etiology of gambling disorder, as well as effective treatment strategies. The different

chapters of this book present detailed information on the general concept of addiction as applied to gambling, the clinical characteristics, epidemiology and comorbidities of gambling disorder, as well as typical cognitive distortions found in patients with gambling disorder. In addition, the book includes chapters discussing animal models and the genetic and neurobiological underpinnings of the disorder. Further, it is examining treatment options including pharmacological and psychological intervention methods, as well as innovative new treatment approaches. The book also discusses relevant similarities to and differences with substance-related disorders and other behavioral addictions. Lastly, it examines gambling behavior from a cultural perspective, considers possible prevention strategies and outlines future perspectives in the field.

This book is a printed edition of the Special Issue "Vitamin C in Health and Disease" that was published in *Nutrients*

Exploring Biology in the Laboratory: Core Concepts is a comprehensive manual appropriate for introductory biology lab courses. This edition is designed for courses populated by nonmajors or for majors courses where abbreviated coverage is desired. Based on the two-semester version of *Exploring Biology in the Laboratory*, 3e, this Core Concepts edition features a streamlined set of clearly written activities with abbreviated coverage of the biodiversity of life. These exercises emphasize the unity of all living things and the evolutionary forces that have resulted in, and continue to act on, the diversity that we see around us today.

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Comprehensive and practical guide to the selection and design of a wide range of chemical process equipment. Emphasis is placed on real-world process design and performance of equipment. Provides examples of successful applications, with numerous drawings, graphs, and tables to show the functioning and performance of the equipment. Equipment rating forms and manufacturers' questionnaires are collected to illustrate the data essential to process design. Includes a chapter on equipment cost and addresses economic concerns. * Practical guide to the selection and design of a wide range of chemical process equipment. Examples of successful, real-world applications are provided. * Fully revised and updated with valuable shortcut methods, rules of thumb, and equipment rating forms and manufacturers' questionnaires have been collected to demonstrate the design process. Many line drawings, graphs, and tables illustrate performance data. * Chapter 19 has been expanded to cover new information on membrane separation. Approximately 100 worked examples are included. End of chapter references also are provided.

The Emily Post Institute, the most trusted brand in etiquette, tackles the latest issues regarding how we interact along with classic etiquette and manners advice in this updated and gorgeously packaged edition. Today's world is in a state of constant change. But one thing remains year after year: the necessity for good etiquette. This 19th edition of Emily Post's Etiquette offers insight and wisdom on a variety of new topics and fresh advice on classic conundrums, including: Social media Living with neighbors Networking and job seeking Office issues Sports and recreation Entertaining at home and celebrations Weddings Invitations Loss, grieving, and condolences Table manners While they offer useful information on the practical—from table settings and introductions to thank-you notes and condolences—the Posts

make it clear why good etiquette matters. Etiquette is a sensitive awareness of the feelings of others, they remind us. Ultimately, being considerate, respectful, and honest is what's really important in building positive relationships. "Please" and "thank you" do go a long way, and whether it's a handshake, a hug, or a friend request, it's the underlying sincerity and good intentions behind any action that matter most.

The 6-carbon lactone known as ascorbic acid (vitamin C) is an important water-soluble vitamin. It is essential for preserving optimal health and it is used by the body for many purposes, including collagen biosynthesis, melanin reduction and enhanced immunity. This book addresses some important issues related to various methods which are employed to encapsulate ascorbic acid. A comparison of the characteristics of ascorbic acid nano and microparticles prepared by different methods is also given. Furthermore, the biomedical significance of human vitamin C metabolism is examined, in the light of polymorphisms in xenobiotic enzymes deduced from genetic, biochemical and epidemiological results to estimate optimal nutrition. Additionally, Vitamin C exerts a protective role against some types of cancer. For that reason, this book investigates the protective effect of vitamin C. Possible pro- and antioxidant effects of vitamin C is also presented and their extrapolation on human health is discussed. Other chapters in this book include a review of the role of vitamin C in the physiology of several diseases, good dietary sources of vitamin C, a study of the effects of environmental tobacco smoke (ETS) on vitamin C status in exposed populations and the role of vitamin C in human reproduction and its effect on people who suffer from epileptic seizures. This book comprehensively describes the development and practice of DNA-encoded library synthesis technology. Together, the chapters detail an approach to drug discovery that offers

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an attractive addition to the portfolio of existing hit generation technologies such as high-throughput screening, structure-based drug discovery and fragment-based screening. The book: Provides a valuable guide for understanding and applying DNA-encoded combinatorial chemistry Helps chemists generate and screen novel chemical libraries of large size and quality Bridges interdisciplinary areas of DNA-encoded combinatorial chemistry – synthetic and analytical chemistry, molecular biology, informatics, and biochemistry Shows medicinal and pharmaceutical chemists how to efficiently broaden available “chemical space” for drug discovery Provides expert and up-to-date summary of reported literature for DNA-encoded and DNA-directed chemistry technology and methods

Supplies basic summary and treatment information quickly for the health care provider on the front lines. Provides concise supplemental reading material to assist in education of biological casualty management. Edge indexed.

The emphasis of the manual is on rapid assessment and decision making. The clinical action steps are based on clinical assessment with limited reliance on laboratory or other tests and most are possible in a variety of clinical settings.

"Integration of the Armed Forces, 1940-1965" by Morris J. MacGregor. Published by Good Press. Good Press publishes a wide range of titles that encompasses every genre. From well-known classics & literary fiction and non-fiction to forgotten?or yet undiscovered gems?of world literature, we issue the books that need to be read. Each Good Press edition has been meticulously edited and formatted to boost readability for all e-readers and devices. Our goal is to

produce eBooks that are user-friendly and accessible to everyone in a high-quality digital format.

This is the fourth Special Issue in Pharmaceuticals within the last six years dealing with aspects of radiopharmaceutical sciences. It demonstrates the significant interest and increasing relevance to ameliorate nuclear medicine imaging with PET or SPECT, and also radiotherapeutical procedures. Numerous targets and mechanisms have been identified and have been under investigation over the previous years, covering many fields of medical and clinical research. This development is well illustrated by the articles in the present issue, including 13 original research papers and one review, covering a broad range of actual research topics in the field of radiopharmaceutical sciences.

This case-based approach to the management of pediatric eye diseases and strabismus teaches the novice, as well as the experienced surgeon, how to conceptualize and analyze surgical planning to maximize patient outcomes, allowing readers to “get inside the head of the surgeon.” Individual cases with clear instructions and an abundance of color illustrations, presented by experts in the field, teach critical information one case at a time. Practical Management of Pediatric Ocular Disorders and Strabismus provides the key guiding principles of a traditional textbook in an easy-to-digest format. Each chapter of the text tackles

a common or rare clinical situation and begins with the description of an illustrative case. The chapters are structured with sections on case description, differential diagnosis, management and outcomes with a list of possible complications and the approach to their management.

Soils and sediments influence current processes, preserve evidence of past processes, indicate evolutionary phases in landscapes and provide a basis for relative and absolute chronologies. They provide an important key to the integration of short-term process studies and investigation of longer-term landform evolution. This book, first published in 1985, has been arranged to provide wide temporal and spatial coverage, with studies ranging from historic to geologic time scales and micro- to macro-spatial scales. The interdisciplinary nature of the subject is reflected in contributions from soil scientists, engineering geologists, hydrologists and geomorphologists.

Today's children face a multitude of pressures, from the everyday challenges of life to the increasing threats of poverty, exploitation, and trauma. Central to growing up successfully is learning to deal with stress, endure hardships, and thrive despite adversity. Resilience – the ability to cope with and overcome life's difficulties – is a quality that can potentially be nurtured in all young people. The second edition of the Handbook of Resilience in Children updates and expands

on its original focus of resilience in children who overcome adversity to include its development in those not considered at risk, leading to better outcomes for all children across the lifespan. Expert contributors examine resilience in relation to environmental stressors, as a phenomenon in child and adolescent disorders, and as a means toward positive adaptation into adulthood. New and revised chapters explore strategies for developing resilience in the family, the therapist's office, and the school as well as its nurturance in caregivers and teachers. Topics addressed include: Resilience in maltreated children and adults. Resilience and self-control impairment. Relational resilience in young and adolescent girls. Asset-building as an essential component of treatment. Assessment of social and emotional competencies related to resilience. Building resilience through school bullying prevention programs. Large-scale longitudinal studies on resilience. The second edition of the Handbook of Resilience in Children is a must-have reference for researchers, clinicians, allied practitioners and professionals, and graduate students in school and clinical psychology, education, pediatrics, psychiatry, social work, school counseling, and public health. More than 18 million people in the United States have diabetes mellitus, and about 90% of these have the type 2 form of the disease. This book attempts to dissect the complexity of the molecular mechanisms of insulin action with a

special emphasis on those features of the system that are subject to alteration in type 2 diabetes and other insulin resistant states. It explores insulin action at the most basic levels, through complex systems.

The polygraph, often portrayed as a magic mind-reading machine, is still controversial among experts, who continue heated debates about its validity as a lie-detecting device. As the nation takes a fresh look at ways to enhance its security, can the polygraph be considered a useful tool? The Polygraph and Lie Detection puts the polygraph itself to the test, reviewing and analyzing data about its use in criminal investigation, employment screening, and counter-intelligence. The book looks at: The theory of how the polygraph works and evidence about how deceptivenessâ€"and other psychological conditionsâ€"affect the physiological responses that the polygraph measures. Empirical evidence on the performance of the polygraph and the success of subjectsâ€™ countermeasures. The actual use of the polygraph in the arena of national security, including its role in deterring threats to security. The book addresses the difficulties of measuring polygraph accuracy, the usefulness of the technique for aiding interrogation and for deterrence, and includes potential alternativesâ€"such as voice-stress analysis and brain measurement techniques.

Following the two damaging California earthquakes in 1989 (Loma Prieta) and 1994

(Northridge), many concrete wall and masonry wall buildings were repaired using federal disaster assistance funding. The repairs were based on inconsistent criteria, giving rise to controversy regarding criteria for the repair of cracked concrete and masonry wall buildings. To help resolve this controversy, the Federal Emergency Management Agency (FEMA) initiated a project on evaluation and repair of earthquake damaged concrete and masonry wall buildings in 1996. The ATC-43 project addresses the investigation and evaluation of earthquake damage and discusses policy issues related to the repair and upgrade of earthquake damaged buildings. The project deals with buildings whose primary lateral-force-resisting systems consist of concrete or masonry bearing walls with flexible or rigid diaphragms, or whose vertical-load-bearing systems consist of concrete or steel frames with concrete or masonry infill panels. The intended audience is design engineers, building owners, building regulatory officials, and government agencies. The project results are reported in three documents. The FEMA 306 report, Evaluation of Earthquake Damaged Concrete and Masonry Wall Buildings, Basic Procedures Manual, provides guidance on evaluating damage and analyzing future performance. Included in the document are component damage classification guides, and test and inspection guides. FEMA 307, Evaluation of Earthquake Damaged Concrete and Masonry Wall Buildings, Technical Resources, contains supplemental information including results from a theoretical analysis of the effects of prior damage on single-degree-of-freedom mathematical models, additional background information on the component guides, and an example of the application of the basic procedures. FEMA 308, The Repair of Earthquake Damaged Concrete and Masonry Wall Buildings, discusses the policy issues pertaining to the repair of earthquake damaged buildings and illustrates how the procedures developed for the project can be used to

provide a technically sound basis for policy decisions. It also provides guidance for the repair of damaged components.

The Forest Inventory and Analysis (FIA) Program of the Forest Service, U.S. Department of Agriculture, conducts a national inventory of forests across the United States. A systematic subset of permanent inventory plots in 38 States is currently sampled every year for numerous forest health indicators. One of these indicators, crown-condition classification, is designed to estimate tree crown dimensions and assess the impact of crown stressors. The indicator features eight tree-level field measurements in addition to variables traditionally measured in conjunction with FIA inventories: vigor class, uncompact live crown ratio, crown light exposure, crown position, crown density, crown dieback, foliage transparency, and crown diameter. Indicators of crown health derived from the crown data are intended for analyses at the State, regional, and national levels, and contribute to the core tabular output in standard FIA reports. Crown-condition measurements were originally implemented as part of the Forest Health Monitoring (FHM) Program in 1990. Except for crown diameter, these measurements were continued when the FIA Program assumed responsibility for FHM plot-based detection monitoring in 2000. This report describes in detail the data collection and analytical techniques recommended for crown-condition classification.

Today, herbicide-resistant weeds dominate research and development efforts in the discipline of weed science. The incidence, management challenges, and cost of multiple herbicide-resistant weed populations are continually increasing worldwide. Crop varieties with multiple herbicide-resistance traits are being rapidly adopted by growers and land managers to keep ahead of the weed resistance tsunami. This Special Issue of *Plants* comprises papers that

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describe the current status and future outlook of herbicide resistance research and development in weedy and domestic plants, with topics covering the full spectrum from resistance mechanisms to resistance management. The unifying framework for this Special issue is the challenge posed to all of the contributing authors: What are the (potential) implications for herbicide resistance management?

This new, up-to-date history of Farmall includes the latest models and implements, bringing you all of the information you want about these unique tractors through beautiful photographs and in-depth text.

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