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B Vitamins and Folate Pragmatic Bookshelf

Introduce your students to the latest advances in spectroscopy with the text that has set the standard in the field for more than three decades: INTRODUCTION TO SPECTROSCOPY, 5e, by Donald L. Pavia, Gary M. Lampman, George A. Kriz, and James R. Vyvyan. Whether you use the book as a primary text in an upper-level spectroscopy course or as a companion book with an organic chemistry text, your students will receive an unmatched, systematic introduction to spectra and basic theoretical concepts in spectroscopic methods. This acclaimed resource features up-to-date spectra; a modern presentation of one-dimensional nuclear magnetic resonance (NMR) spectroscopy; an introduction to biological molecules in mass spectrometry; and coverage of modern techniques alongside DEPT, COSY, and HECTOR. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Races of Man Random House

A complete explanation of the issues that determine private firm value Principles of Private Firm Valuation combines recent academic research and practical real-world experience to help readers better understand the multitude of factors that determine private firm value. For the financial professional serving private firms—who are increasingly being called upon to give advice on issues related to firm valuation and deal structure—this comprehensive guide discusses critical topics, including how firms create value and how to measure it, valuing control, determining the size of the marketability discount, creating transparency and the implications for value, the value of tax pass-through entities versus a C corporation, determining transaction value, and the valuation implications of FASB 141 (purchase price accounting) and 142 (goodwill impairment). Dr. Stanley J. Feldman (Lowell, MA) is Associate Professor of Finance at Bentley College, where he currently teaches courses in corporate finance with a focus on business valuation and business strategy at both the graduate and undergraduate levels. He is a member of the FASB Valuation Resource Group and is Chairman and cofounder of Axiom Valuation Solutions.

Elementary Differential Geometry CRC Press

Presenting twenty individual grammar points in lively and realistic contexts, Basic Spanish is an accessible reference grammar with related exercises in one, easy-to-follow volume. Beginning with the simpler aspects of Spanish and progressing on to more complex areas, each chapter contains grammar points that are followed by examples and exercises selected to reinforce the topic. A first-class introduction to the language, features of this practical book include: * authentic reading texts to encourage an understanding of Spain and Spanish-speaking countries * reference to Latin American usage where appropriate * abundant exercises with full answer key * glossary of grammatical terms. Clearly presented and user-friendly, Basic Spanish provides readers with the basic tools to express themselves in a wide variety of situations, making it an ideal reference and practice resource for both beginners and students with some knowledge of the language.

Applied Linear Statistical Models McGraw-Hill Education

Inspiration to Live Your MAGIC (TM) contains 75 biographical introductions that capture the essence of each person's life in about 400 words. Young people can find a role model and do more research and reading. Everyone, with five minutes to read, can find inspiration and perspective. Aspiring public speakers can find ready-made life stories to illustrate their speeches. Every person in this collection is an inspiration to others, through their response to challenges (and some of them faced incredible challenges), by their commitment to serving humanity and their fidelity to their values. A book of inspiration for everyone. Praise for Inspiration to Live Your MAGIC (TM) This book is filled with real life stories of courage, leadership, wisdom and love. A must-read for all young people. Our world is a better place because of the choices each of these people made in their life journey. Jay Ball, President & CEO Junior Achievement of Northern Alberta Larry Anderson's own story is compelling and inspiring enough, never mind the stories contained in Inspiration to Live Your MAGIC (TM). From young people with a belief that child labour is wrong, to world-class philosophers, Larry Anderson captures the spirit and essence of inspiration. In this volume you will find stories of children, women and men who followed their dreams. These inspired individuals changed their communities, their nation and the world. From politics, diplomacy, entertainment, the arts and science, their stories demonstrate the triumph of the human spirit. From the slums of Calcutta, to the halls of Government, the Courts and the glitz of Las Vegas, these individual stories are victories of faith over fear. A must-read for all, this book is truly inspiring. Robert Philp Provincial Court Judge Edmonton, Alberta, Canada These seventy-five biographies showcase people from all age groups, backgrounds and cultures. What they share is a passion and commitment to make their dreams come true and to make a difference for others in the process. Read Inspiration to Live Your MAGIC (TM), you will be inspired. Bill Trainor, Retired Teacher I love the way "Inspiration to Live Your MAGIC (TM) is written. It captures your attention and is easy to read and understand. I not only learned but it evoked a yearning inside me to live my own magic. Thank you. Jeannie Lungard, Teacher, Psychologist

An Historical Text Book and Atlas of Biblical Geography Lippincott Williams & Wilkins

Elementary Differential Geometry focuses on the elementary account of the geometry of curves and surfaces. The book first offers information on calculus on Euclidean space and frame fields. Topics include structural equations, connection forms, frame fields, covariant derivatives, Frenet formulas, curves, mappings, tangent vectors, and differential forms. The publication then examines Euclidean geometry and calculus on a surface.

Discussions focus on topological properties of surfaces, differential forms on a surface, integration of forms, differentiable functions and tangent vectors, congruence of curves, derivative map of an isometry, and Euclidean geometry. The manuscript takes a look at shape operators, geometry of surfaces in E , and Riemannian geometry. Concerns include geometric surfaces, covariant derivative, curvature and conjugate points, Gauss-Bonnet theorem, fundamental equations, global theorems, isometries and local isometries, orthogonal coordinates, and integration and orientation. The text is a valuable reference for students interested in elementary differential geometry.

Propagation of Short Radio Waves Springer Science & Business Media

Our day-to-day experiences over the past decade have taught us that there must be limits to our tremendous appetite for energy, natural resources, and consumer goods. Even utility and oil companies now promote conservation in the face of demands for dwindling energy reserves. And for years some biologists have warned us of the direct correlation between scarcity and population growth. These scientists see an appalling future riding the tidal wave of a worldwide growth of population and technology. A calm but unflinching realist, Catton suggests that we cannot stop this wave - for we have already overshot the Earth's capacity to support so huge a load. He contradicts those scientists, engineers, and technocrats who continue to write optimistically about energy alternatives. Catton asserts that the technological panaceas proposed by those who would harvest from the seas, harness the winds, and farm the deserts are ignoring the fundamental premise that "the principals of ecology apply to all living things." These principles tell us that, within a finite system, economic expansion is not irreversible and population growth cannot continue indefinitely. If we disregard these facts, our sagging American Dream will soon shatter completely.

Physiology E-Book MIT Press

An overview of the rapidly growing field of ant colony optimization that describes theoretical findings, the major algorithms, and current applications. The complex social behaviors of ants have been much studied by science, and computer scientists are now finding that these behavior patterns can provide models for solving difficult combinatorial optimization problems. The attempt to develop algorithms inspired by one aspect of ant behavior, the ability to find what computer scientists would call shortest paths, has become the field of ant colony optimization (ACO), the most successful and widely recognized algorithmic technique based on ant behavior. This book presents an overview of this rapidly growing field, from its theoretical inception to practical applications, including descriptions of many available ACO algorithms and their uses. The book first describes the translation of observed ant behavior into working optimization algorithms. The ant colony metaheuristic is then introduced and viewed in the general context of combinatorial optimization. This is followed by a detailed description and guide to all major ACO algorithms and a report on current theoretical findings. The book surveys ACO applications now in use, including routing, assignment, scheduling, subset, machine learning, and bioinformatics problems. AntNet, an ACO algorithm designed for the network routing problem, is described in detail. The authors conclude by summarizing the progress in the field and outlining future research directions. Each chapter ends with bibliographic material, bullet points setting out important ideas covered in the chapter, and exercises. Ant Colony Optimization will be of interest to academic and industry researchers, graduate students, and practitioners who wish to learn how to implement ACO algorithms.

Condensed Matter Field Theory Elsevier Health Sciences

Throughout most of the twentieth century, electric propulsion was considered the technology of the future. Now, the future has arrived. This important new book explains the fundamentals of electric propulsion for spacecraft and describes in detail the physics and characteristics of the two major electric thrusters in use today, ion and Hall thrusters. The authors provide an introduction to plasma physics in order to allow readers to understand the models and derivations used in determining electric thruster performance. They then go on to present detailed explanations of: Thruster principles Ion thruster plasma generators and accelerator grids Hollow cathodes Hall thrusters Ion and Hall thruster plumes Flight ion and Hall thrusters Based largely on research and development performed at the Jet Propulsion Laboratory (JPL) and complemented with scores of tables, figures, homework problems, and references, Fundamentals of Electric Propulsion: Ion and Hall Thrusters is an indispensable textbook for advanced undergraduate and graduate students who are preparing to enter the aerospace industry. It also serves as an equally valuable resource for professional engineers already at work in the field.

Principles of Private Firm Valuation Cengage Learning

As one of the first books to distill the economics of information and networks into practical business strategies, this is a guide to the winning moves that can help business leaders—from writers, lawyers and finance professional to executives in the entertainment, publishing and hardware and software industries—navigate successfully through the information economy.

Differential Forms in Algebraic Topology MIT Press

The majority of data sets collected by researchers in all disciplines are multivariate, meaning that several measurements, observations, or recordings are taken on each of the units in the data set. These units might be human subjects, archaeological artifacts, countries, or a vast variety of other things. In a few cases, it may be sensible to isolate each variable and study it separately, but in most instances all the variables need to be examined simultaneously in order to fully grasp the structure and key features of the data. For this purpose, one or another method of multivariate analysis might be helpful, and it is with such methods that this book is largely concerned. Multivariate analysis includes methods both for describing and exploring such data and for making formal inferences about them. The aim of all the techniques is, in general sense, to display or extract the signal in

the data in the presence of noise and to find out what the data show us in the midst of their apparent chaos. An Introduction to Applied Multivariate Analysis with R explores the correct application of these methods so as to extract as much information as possible from the data at hand, particularly as some type of graphical representation, via the R software. Throughout the book, the authors give many examples of R code used to apply the multivariate techniques to multivariate data.

Basic Spanish Springer Science & Business Media

We all hate text books that begin with "Hello, what's your name?," don't we? "The Mystery of Nils" is a coherent story, which starts very simply, but develops into a fascinating novel. Can't stop reading? Well then you will have to learn Norwegian! We have carefully selected the most frequently used words in the Norwegian language and made sure that the story is primarily made up of them. Separate texts and exercises focus on conversational topics that will prepare you for living in Norway. Grammar is a headache? Not with "The Mystery of Nils." Uncover the structure of the Norwegian language with pictures, casual yet comprehensive explanations, and a lot of easy to remember examples. Repetition is the key to learning a language. At www.skapago.eu/nils you will find a great number of exercises, a vocabulary trainer, videos about pronunciation, and a whole lot more. Our Norwegian teachers have co-created this book. They know all the obstacles you might incur and can help you with individual training. Since we teach through online video conferences, you can take lessons wherever you are on this planet. Schedule a free demo lesson at www.skapago.eu. This is the story: Erna Langvik gives her eight year old granddaughter a special birthday present: a doll inspired by the traditional Norwegian mythical creature "Nisse." Nils as the doll is called leads a happy life with his new family in Oslo. But due to an accident, Nils finds out that he means a lot more to Erna than just being a birthday present. Without knowing it, he has been carrying a painful secret, and during an adventurous trip to Northern Norway, he helps Erna to make one of the most important decisions of her life."

A Primer on Scientific Programming with Python ABRAMS

Applied Linear Statistical Models 5e is the long established leading authoritative text and reference on statistical modeling. For students in most any discipline where statistical analysis or interpretation is used, ALSM serves as the standard work. The text includes brief introductory and review material, and then proceeds through regression and modeling for the first half, and through ANOVA and Experimental Design in the second half. All topics are presented in a precise and clear style supported with solved examples, numbered formulae, graphic illustrations, and "Notes" to provide depth and statistical accuracy and precision. Applications used within the text and the hallmark problems, exercises, and projects are drawn from virtually all disciplines and fields providing motivation for students in virtually any college. The Fifth edition provides an increased use of computing and graphical analysis throughout, without sacrificing concepts or rigor. In general, the 5e uses larger data sets in examples and exercises, and where methods can be automated within software without loss of understanding, it is so done.

Governing the Commons Harvard Business Press

The book serves as a first introduction to computer programming of scientific applications, using the high-level Python language. The exposition is example and problem-oriented, where the applications are taken from mathematics, numerical calculus, statistics, physics, biology and finance. The book teaches "Matlab-style" and procedural programming as well as object-oriented programming. High school mathematics is a required background and it is advantageous to study classical and numerical one-variable calculus in parallel with reading this book. Besides learning how to program computers, the reader will also learn how to solve mathematical problems, arising in various branches of science and engineering, with the aid of numerical methods and programming. By blending programming, mathematics and scientific applications, the book lays a solid foundation for practicing computational science. From the reviews: Langtangen ... does an excellent job of introducing programming as a set of skills in problem solving. He guides the reader into thinking properly about producing program logic and data structures for modeling real-world problems using objects and functions and embracing the object-oriented paradigm. ... Summing Up: Highly recommended. F. H. Wild III, Choice, Vol. 47 (8), April 2010 Those of us who have learned scientific programming in Python 'on the streets' could be a little jealous of students who have the opportunity to take a course out of Langtangen's Primer." John D. Cook, The Mathematical Association of America, September 2011 This book goes through Python in particular, and programming in general, via tasks that scientists will likely perform. It contains valuable information for students new to scientific computing and would be the perfect bridge between an introduction to programming and an advanced course on numerical methods or computational science. Alex Small, IEEE, CISE Vol. 14 (2), March /April 2012 "This fourth edition is a wonderful, inclusive textbook that covers pretty much everything one needs to know to go from zero to fairly sophisticated scientific programming in Python..." Joan Horvath, Computing Reviews, March 2015

The Agile Samurai Cambridge University Press

This book provides simple and practical instructions on how to perform safe and easy venous cannulation, and how to insert midlines and PICC lines using ultrasound. It aids understanding of the relevant anatomy, shows how to use the ultrasound machine, and how to insert such lines using ultrasound guidance. Readers will feel confident and well prepared to deal with patients requiring difficult venous access, giving them simple solutions

that can be learned very quickly. These skills will also be globally beneficial for patients and healthcare institutions alike. Follows the trends of the NHS and riding the wave of the midline/PICC line revolution Compact and affordable highly relevant to daily practice Useful for specialists and generalists alike, truly multi-disciplinary

Quantum Mechanics CRC Press

This accessible, hands-on text not only introduces students to the important topics in historical linguistics but also shows them how to apply the methods described and how to think about the issues; abundant examples and exercises allow students to focus on how to do historical linguistics. Distinctive to this text is its integration of the standard topics with others now considered important to the field, including syntactic change, grammaticalization, sociolinguistic contributions to linguistic change, distant genetic relationships, areal linguistics, and linguistic prehistory. Examples are taken from a broad range of languages; those from the more familiar English, French, German, and Spanish make the topics more accessible, while those from non-Indo-European languages show the depth and range of the concepts they illustrate. This second edition features expanded explanations and examples as well as updates in light of recent work in linguistics, including a defense of the family tree model, a response to recent claims on lexical diffusion/frequency, and a section on why languages diversify and spread.

A Century of Artists Books John Wiley & Sons

Beyond Vision is the first English-language collection of essays on art by Pavel Florensky (1882-1937), Russian philosopher, priest, linguist, scientist, mathematician - and art historian. In addition to seven essays by Florensky, the book includes a biographical introduction and an examination of Florensky's contribution as an art historian by Nicoletta Misler. Beyond Vision reveals Florensky's fundamental attitudes to the vital questions of construction, composition, chronology, function and destination in the fields of painting, sculpture and design. His reputation as a theologian and philosopher is already established in the English-speaking world, but this first collection in English of his art essays (translated by Wendy Salmond) will be a revelation to those in the field. Pavel Florensky was a true polymath: trained in mathematics and philosophy at Moscow University, he rejected a scholarship in advanced mathematics in order to study theology at the Moscow Theological Academy. He was also an expert linguist, scientist and art historian. A victim of the Soviet government's animosity towards religion, he was condemned to a Siberian labor camp in 1933 where he continued his work under increasingly difficult circumstances. He was executed in 1937.

Mirrors, Prisms and Lenses Elsevier Health Sciences

This handy, topic-based dictionary covers a broad range of vocabulary in romanized Mandarin Chinese (pinyin) and English that beginning students need to know. This handy, topic-based dictionary covers a broad range of vocabulary in romanized Mandarin Chinese (pinyin) and English that beginning students need to know.

Historical Linguistics Springer

Written specifically for clinical exercise physiologists, ECG Interpretation for the Clinical Exercise Physiologist, 2nd Edition, provides an introduction to basic concepts and measurements followed by in-depth explorations of rhythm and atrioventricular blocks and key topics including infarct, hypertrophy, axis, and conduction defects. Accompanying exercise-related case studies make this engaging text an ideal review resource for certification prep as well as a guide to success in practice. Enhancements to this 2nd Edition include a new design that improves readability and clarity, expanded study support through updated examples and case study questions, as well as additional interpretation practice opportunities that ensure understanding and boost clinical confidence.

Overshoot Routledge

Introduction to Plasma Physics is the standard text for an introductory lecture course on plasma physics. The text's six sections lead readers systematically and comprehensively through the fundamentals of modern plasma physics. Sections on single-particle motion, plasmas as fluids, and collisional processes in plasmas lay the groundwork for a thorough understanding of the subject. The authors take care to place the material in its historical context for a rich understanding of the ideas presented. They also emphasize the importance of medical imaging in radiotherapy, providing a logical link to more advanced works in the area. The text includes problems, tables, and illustrations as well as a thorough index and a complete list of references.

Growth and Structure of the English Language Routledge

Renowned physiology instructor Dr. Linda Costanzo's friendly, logical, easy-to-follow writing style makes Physiology, 6th Edition ideal for coursework and USMLE preparation. Well-designed figures and tables provide handy visuals for procedures or physiologic equations, and step-by-step explanations clarify challenging concepts. This full-color, manageably-sized text offers a comprehensive and consistent overview of core physiologic concepts at the organ system and cellular levels, making complex principles easy to understand. Information is presented in a short, simple, and focused manner - the perfect presentation for success in coursework and on exams. Chapter summaries and "Challenge Yourself" questions at the end of each chapter provide an extensive review of the material and reinforce understanding and retention. Equations and sample problems are integrated throughout the text. NEW! More Clinical Physiology Case Boxes relate to pathophysiology for a clinical context