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Drug Transporters Martin F. Fromm 2010-11-19 It is increasingly recognized that various transporter proteins are expressed throughout the body and determine absorption, tissue distribution, biliary and renal elimination of endogenous compounds and drug effects. This book will give an overview on the transporter families which are most important for drug therapy. Most chapters will focus on one transporter family highlighting tissue expression, substrates, inhibitors, knock-out mouse models and clinical studies.

New Techniques in Digital Holography Pascal Picart 2015-04-06 This book proposal for the "instrumentation & measurement" collection of ISTE-Wiley is devoted to special techniques in digital holography. The co-authors aim at establishing a synthetic state-of-the-art of important advances in the field of digital holography. We are interested in detailing advances related to fundamentals of digital holography, in-line holography applied to fluid mechanics, digital color holography, digital holographic microscopy, infrared holography, special techniques in full field vibrometry and inverse problems in digital holography. This book presents advanced techniques in the field of digital holography. The book is organized in 8 chapters. The first chapter introduces the basic fundamentals of digital holography. Chapter 2 discusses about the use of in-line holography to the study of seeded flows; the recent developments permit to apply this technique in many industrial or laboratory situations for velocimetry, particle size measurement or trajectory. Chapter 3 presents the new perspectives in 3-color holography applied to solid mechanics and fluid mechanics. Especially, a comparison between Michelson interferometer and interferometer using Wollaston prisms will be discussed. Chapter 4 is devoted to special techniques in holographic microscopy, with use of partial spatially coherent light sources; the use of a reduced coherence source is of interest for reducing the measurement noise; typical applications are detailed. Chapter 5 is devoted to applications of holographic microscopy in neurosciences. Chapter 6 presents digital holography in the infrared domain. Technology related to sensors and light sources are presented and digital holographic infrared interferometry is detailed and applied to high amplitude displacements of industrial aeronautic structures. Examples in NDT (non destructive testing) are also provided. Chapter 7 of the book, aims at presenting new techniques in the field of vibration measurement; especially, techniques based on high speed and ultimate sensitivity are described. Examples related to life sciences are discussed. Chapter 8 discusses about inverse problems in digital holography and demonstrates how a priori knowledge can be used to recover full information of the object scene even when recording is sparse.

Basic Solid State Chemistry Anthony R. West 1988

Foundations of Cryptography: Volume 2, Basic Applications Oded Goldreich 2009-09-17 Cryptography is concerned with the conceptualization, definition and construction of computing systems that address security concerns. The design of cryptographic systems must be based on firm foundations. Foundations of Cryptography presents a rigorous and systematic treatment of foundational issues, defining cryptographic tasks and solving cryptographic problems. The emphasis is on the clarification of fundamental concepts and on demonstrating the feasibility of solving several central cryptographic problems, as opposed to describing ad-hoc approaches. This second volume contains a thorough treatment of three basic applications: Encryption, Signatures, and General Cryptographic Protocols. It builds on the previous volume, which provided a treatment of one-way functions, pseudorandomness, and zero-knowledge proofs. It is suitable for use in a graduate course on cryptography and as a reference book for experts. The author assumes basic familiarity with the design and analysis of algorithms; some knowledge of complexity theory and probability is also useful.

Junior Encyclopedia Bromage FRAN 2019-04-18 This comprehensive book covers a wide range of key topics, from space and science to history and the natural world. Crammed with amazing facts and fantastic photographs, this Junior Encyclopedia provides children with a wealth of knowledge in an accessible format, while captions, annotation and special panels supply extra information.

Variety (December 1950); 180 Variety 2021-09-09 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Financial Performance Representations Stuart Hershman 2008 This book sheds light on all aspects of earnings claims, including defining what an earnings claim really is, the origins of its regulation under the franchise disclosure laws, how a franchisor should prepare an earnings claim, how a franchisee should use an earnings claim, how a franchisee may attack lawful and unlawful earnings claims, how a franchisor may defend against such attacks, and how the government franchise enforcement authorities, investigate unlawful earnings claim activity.

The National Gallery of Victoria, 1861 to 1968 Leonard Bell Cox 1970

Solid State Chemistry and Its Applications Anthony R. West 1991-01-08 The first broad account offering a non-mathematical, unified treatment of solid state chemistry. Describes synthetic methods, X-ray diffraction, principles of inorganic crystal structures, crystal chemistry and bonding in solids; phase diagrams of 1, 2 and 3 component systems; the electrical, magnetic, and optical properties of solids; three groups of industrially important inorganic solids--glass, cement, and refractories; and certain aspects of organic solid state chemistry, including the "organic metal" of new materials.

A Call to Heal Ian Renwick McWhinney 2013-02

Evolution in Action Matthias Glaubrecht 2010-07-24 Radiations, or Evolution in Action We have just celebrated the "Darwin Year" with the double anniversary of his 200th birthday and 150th year of his masterpiece, "On the Origin of Species by means of Natural Selection". In this work, Darwin established the factual evidence of biological evolution, that species change over time, and that new organisms arise by the splitting of ancestral forms into two or more descendant species. However, above all, Darwin provided the mechanisms by arguing convincingly that it is by natural selection - as well as by sexual selection (as he later added) - that organisms adapt to their environment. The many discoveries since then have essentially confirmed and strengthened Darwin's central theses, with latest evidence, for example, from molecular genetics, revealing the evolutionary relationships of all life forms through one shared history of descent from a common ancestor. We have also come a long way to progressively understand more on how new species actually originate, i. e. on speciation which remained Darwin's "mystery of matters", as noted in one of his earliest transmutation notebooks. Since speciation is the underlying mechanism for radiations, it is the ultimate causation for the biological diversity of life that surrounds us.

Analytical Voltammetry M.R. Smyth 1992-01-31 The aim of this volume is to review the state-of-the-art in analytical voltammetry with regard to theory and instrumentation, and show how these relate to the analysis of inorganic,

organometallic, organic and biological molecules. Modern voltammetric techniques have practical applications in biological, pharmaceutical and environmental chemistry. The growing importance of voltammetry in the development of modified electrodes and biological electrodes and chemical and biological sensors is also highlighted.

Tourism Management Clare Inkson 2018-03-12 An introductory text that gives its reader a strong understanding of the dimensions of tourism, the industries of which it is comprised, the issues that affect its success, and the management of its impact on destination economies, environments and communities. Now in a full colour design, the new edition features a clear focus on the issues affecting 21st century tourism, providing students with extensive coverage on the effects of globalisation and global conflict; sustainability and climate change; developments in digital technology and the rise of the sharing economy. International case-studies and snapshots (mini-case studies) are used throughout and have been taken from around the globe, including the US, China, Russia, Gambia, Bhutan, Cuba, Singapore, New Zealand, Australia, Caribbean, Canada and the UK, and from companies including TUI, Airbnb and Marriot. The accompanying Online Resources include PowerPoint slides and an Instructor's Manual for lecturers and additional case studies, useful video links, and web links for students. Suitable for students new to tourism studies.

Digital Holography Pascal Picart 2013-01-24 This book presents a substantial description of the principles and applications of digital holography. The first part of the book deals with mathematical basics and the linear filtering theory necessary to approach the topic. The next part describes the fundamentals of diffraction theory and exhaustively details the numerical computation of diffracted fields using FFT algorithms. A thorough presentation of the principles of holography and digital holography, including digital color holography, is proposed in the third part. A special section is devoted to the algorithms and methods for the numerical reconstruction of holograms. There is also a chapter devoted to digital holographic interferometry with applications in holographic microscopy, quantitative phase contrast imaging, multidimensional deformation investigations, surface shape measurements, fluid mechanics, refractive index investigations, synthetic aperture imaging and information encrypting. Keys so as to understand the differences between digital holography and speckle interferometry and examples of software for hologram reconstructions are also treated in brief. Contents 1. Mathematical Prerequisites. 2. The Scalar Theory of Diffraction. 3. Calculating Diffraction by Fast Fourier Transform. 4. Fundamentals of Holography. 5. Digital Off-Axis Fresnel Holography. 6. Reconstructing Wavefronts Propagated through an Optical System. 7. Digital Holographic Interferometry and Its Applications. Appendix. Examples of Digital Hologram Reconstruction Programs

Ming Tea Murder Laura Childs 2016-03 "Includes recipes and tea time tips"---Page 4 of cover.

Dynamical Theory of Crystal Lattices Max Born 1968

The Aborigines of Puerto Rico and Neighboring Islands Jesse Walter Fewkes 2009-05-26 A valuable recounting of the first formal archaeological excavations in Puerto Rico. Originally published as the Twenty-Fifth Annual Report of the Bureau of American Ethnology to the Secretary of the Smithsonian Institution in 1907, this book was praised in an article in American Anthropologist as doing "more than any other to give a comprehensive idea of the archaeology of the West Indies." Until that time, for mainly political reasons, little scientific research had been conducted by Americans on any of the Caribbean islands. Dr. Fewkes' unique skills of observation and experience served him well in the quest to understand Caribbean prehistory and culture. This volume, the result of his careful fieldwork in Puerto Rico in 1902-04, is magnificently illustrated by 93 plates and 43 line drawings of specimens from both public and private collections of the islands. A 1907 article in the Journal of the Royal Anthropological Institute of Great Britain and Ireland described the volume as "a most valuable contribution to ethnographical science."

After Monte Albán Jeffrey P. Blomster 2008-03-30 After Monte Albán reveals the richness and interregional relevance of Postclassic transformations in the area now known as Oaxaca. Large nucleated states throughout Oaxaca collapsed after C.E. 700, including the great Zapotec state centered in the Valley of Oaxaca, Monte Albán. Dramatic sociopolitical reconfigurations ensued. Oaxaca lies between central Mexico and the Maya area; contributors to After Monte Albán demonstrate Oaxacas cultural centrality in pan-Mesoamerican networks. Contributors synthesize regional transformations and continuities in the lower Rio Verde valley, the Valley of Oaxaca, and the Mixteca Alta. They provide data from material culture, architecture, codices, ethnohistoric documents, and ceramics, including a revised ceramic chronology from the Late Classic to the end of the Postclassic that will be crucial to future investigations. After Monte Albán establishes Postclassic Oaxacas central place in the study of Mesoamerican antiquity.

Temperature Sensing Ivanka Stanimirović 2018-07-25 Temperature is the most often-measured environmental quantity and scientists are continuously improving ways of sensing it. To present their work in the field of temperature sensing, researchers from distant parts of the world have joined their efforts and contributed their ideas according to their interest and engagement. Their articles will give you the opportunity to understand concepts and uses of fiber-optic sensing technology. The optical fiber Mach-Zehnder interferometer for temperature sensing is presented, as well as the optical fiber-distributed temperature sensor and fiber Bragg grating-based sensor. You can learn about tunable diode laser absorption spectroscopy and its various industrial applications. Last but not least, cutting temperature measurements during the machining of aluminum alloys provides us with an insight into the correlation between cutting conditions, mechanical strength of the aluminum alloy, and the cutting temperature measured using the tool-workpiece thermocouple system. The editors hope that the presented contributions will allow both professionals and readers not involved in the immediate field to understand and enjoy the topic.

The Library of Daniel Garrison Brinton University of Pennsylvania. Museum of Archaeology and Anthropology 2002 "Rare archival illustrations show contemporary (1870-1900) photographs of the University of Pennsylvania Museum library and portraits of individual authors represented in the Brinton Library."--BOOK JACKET.

Millionaire by Thirty Douglas R. Andrew 2008-04-30 Most people know that there are 70 million Baby Boomers in America today...but what is less known is that there are approximately 100 million people in America between the ages of 16 and 30. This generation has just entered, or will soon be entering the work force. And they have no idea how to invest, save, or handle their money. Young people today come out of school having had little or no formal education on the basics of money management. Many have large debts from student loans looming over their heads. And many feel confused and powerless when their pricey educations don't translate into high paying jobs. They feel that their \$30,000-\$40,000 salary is too meager to bother with investing, and they constantly fear that there will be "too much month left at the end of their money." Douglas R. Andrew has shown the parents of this generation a different pathway to financial freedom. Now Doug and his sons, Emron and Aaron - both of whom are in their mid-20s - show the under-30 crowd how they can break from traditional 401k investment plans and instead can find a better way by investing in real estate, budgeting effectively, avoiding unnecessary taxes and using life insurance to create tax-free income. With the principles outlined in Millionaire by Thirty, recent graduates will be earning enough interest on their savings to meet their basic living expenses by the time they're 30. And by the time they're 35, their investments will be earning more money than they are, guaranteeing them a happy, wealthy future.

Pediatric and Neonatal Mechanical Ventilation Peter C. Rimensberger 2014-11-12 Written by outstanding authorities from

all over the world, this comprehensive new textbook on pediatric and neonatal ventilation puts the focus on the effective delivery of respiratory support to children, infants and newborns. In the early chapters, developmental issues concerning the respiratory system are considered, physiological and mechanical principles are introduced and airway management and conventional and alternative ventilation techniques are discussed. Thereafter, the rational use of mechanical ventilation in various pediatric and neonatal pathologies is explained, with the emphasis on a practical step-by-step approach. Respiratory monitoring and safety issues in ventilated patients are considered in detail, and many other topics of interest to the bedside clinician are covered, including the ethics of withdrawal of respiratory support and educational issues. Throughout, the text is complemented by numerous illustrations and key information is clearly summarized in tables and lists.

Uremic Toxins Severin Ringoir 2012-12-06 The present book contains the Proceedings of a two day Symposium on Uremic Toxins organized at the University of Ghent in Belgium. A series of guest lectures, free communications and posters have been presented. An international audience of 163 scientists from 16 nationalities listened to and discussed extensively a spectrum of topics brought forward by colleagues and researchers who worked for many years in the field of Uremic Toxins. There is a striking contrast between all the new dialysis strategies available in the work to "clean" the uremic patients and the almost non-progression of our knowledge on uremic toxins in the past decade. In this sense the symposium was felt by all participants as a new start for the research in the biochemical field of the definition of uremia. If the present volume would stimulate new work in this field in order to define uremia, or identify the uremic toxins, the purpose of the organizers would be maximally fulfilled.

Catalogue of Arabic Manuscripts in SS Cyril and Methodius National Library, Sofia, Bulgaria Stoianka Kenderova 1995

Principles of Physics Michael Nelkon 1990-05-01 Principles of Physics is a well-established popular textbook which has been completely revised and updated.

The French in Malta, 1798-1800 Carmel Testa 1997 The most documented account of the French occupation of Malta between 10 June 1798 when Napoleon landed on the island with his Army of the East, and 5 September 1800 when the French commander General Vaubois capitulated to British officials who had come to the assistance of Maltese insurgents.

Teaching History for the Common Good Keith C. Barton 2004-07-13 In Teaching History for the Common Good, Barton and Levstik present a clear overview of competing ideas among educators, historians, politicians, and the public about the nature and purpose of teaching history, and they evaluate these debates in light of current research on students' historical thinking. In many cases, disagreements about what should be taught to the nation's children and how it should be presented reflect fundamental differences that will not easily be resolved. A central premise of this book, though, is that systematic theory and research can play an important role in such debates by providing evidence of how students think, how their ideas interact with the information they encounter both in school and out, and how these ideas differ across contexts. Such evidence is needed as an alternative to the untested assumptions that plague so many discussions of history education. The authors review research on students' historical thinking and set it in the theoretical context of mediated action--an approach that calls attention to the concrete actions that people undertake, the human agents responsible for such actions, the cultural tools that aid and constrain them, their purposes, and their social contexts. They explain how this theory allows educators to address the breadth of practices, settings, purposes, and tools that influence students' developing understanding of the past, as well as how it provides an alternative to the academic discipline of history as a way of making decisions about teaching and learning the subject in schools. Beyond simply describing the factors that influence students' thinking, Barton and Levstik evaluate their implications for historical understanding and civic engagement. They base these evaluations not on the disciplinary study of history, but on the purpose of social education--preparing students for participation in a pluralist democracy. Their ultimate concern is how history can help citizens engage in collaboration toward the common good. In Teaching History for the Common Good, Barton and Levstik: *discuss the contribution of theory and research, explain the theory of mediated action and how it guides their analysis, and describe research on children's (and adults') knowledge of and interest in history; *lay out a vision of pluralist, participatory democracy and its relationship to the humanistic study of history as a basis for evaluating the perspectives on the past that influence students' learning; *explore four principal "stances" toward history (identification, analysis, moral response, and exhibition), review research on the extent to which children and adolescents understand and accept each of these, and examine how the stances might contribute to--or detract from-- participation in a pluralist democracy; *address six of the principal "tools" of history (narrative structure, stories of individual achievement and motivation, national narratives, inquiry, empathy as perspective-taking, and empathy as caring); and *review research and conventional wisdom on teachers' knowledge and practice, and argue that for teachers to embrace investigative, multi-perspectival approaches to history they need more than knowledge of content and pedagogy, they need a guiding purpose that can be fulfilled only by these approaches--and preparation for participatory democracy provides such purpose. Teaching History for the Common Good is essential reading for history and social studies professionals, researchers, teacher educators, and students, as well as for policymakers, parents, and members of the general public who are interested in history education or in students' thinking and learning about the subject.

The Paonia Project Thomas A. Latousek 1995

The Eukaryotic Cell Cycle J. A. Bryant 2008 This book provides an overview of the stages of the eukaryotic cell cycle, concentrating specifically on cell division for development and maintenance of the human body. It focusses especially on regulatory mechanisms and in some instances on the consequences of malfunction.

Rights Brought Home Great Britain. Home Office 1997

The Development of the Number Field Sieve Arjen K. Lenstra 2006-11-15 The number field sieve is an algorithm for finding the prime factors of large integers. It depends on algebraic number theory. Proposed by John Pollard in 1988, the method was used in 1990 to factor the ninth Fermat number, a 155-digit integer. The algorithm is most suited to numbers of a

special form, but there is a promising variant that applies in general. This volume contains six research papers that describe the operation of the number field sieve, from both theoretical and practical perspectives. Pollard's original manuscript is included. In addition, there is an annotated bibliography of directly related literature.

Weird But True 9 National Geographic Kids 2017 Offers a collection of true facts about animals, food, science, pop culture, outer space, geography, and weather.

And Another Thing Jeremy Clarkson 2007-10-04 In And Another Thing... the outspoken and outrageous presenter Jeremy Clarkson, shares his opinions on just about everything. Jeremy Clarkson finds the world such a perplexing place that he wrote a bestselling book about it. Yet, despite the appearance of The World According to Clarkson, things - amazingly - haven't improved. Not being someone to give up easily, however, he's decided to have another go. In And Another Thing... the king of the exasperated quip discovers that: • Bombing North Carolina is bad for Yorkshire • We can look forward to exploding at the age of 62 • Russians look bad in Speedos. But not as bad as we do • Wasps are the highest form of life Thigh-slappingly funny and in your face, Jeremy Clarkson bursts the pointless little bubbles of the idiots while celebrating the special, the unique and the sheer bloody brilliant... And Another Thing... is a hilarious collection of Jeremy's Sunday Times columns and the second in hisThe World According to Clarkson series which also includes The World According to Clarkson, For Crying Out Loud! and How Hard Can It Be? Praise for Jeremy Clarkson: 'Brilliant . . . laugh-out-loud' Daily Telegraph 'Outrageously funny . . . will have you in stitches' Time Out Number-one bestseller Jeremy Clarkson writes on cars, current affairs and anything else that annoys him in his sharp and funny collections. Born To Be Riled, Clarkson On Cars, Don't Stop Me Now, Driven To Distraction, Round the Bend, Motorworld and I Know You Got Soul are also available as Penguin paperbacks; the Penguin App iClarkson: The Book of Cars can be downloaded on the App Store. Jeremy Clarkson because his writing career on the Rotherham Advertiser. Since then he has written for the Sun and the Sunday Times. Today he is the tallest person working in British television, and is the presenter of the hugely popular Top Gear.

Cryptography Douglas Robert Stinson 2018-08-14 Through three editions, Cryptography: Theory and Practice, has been embraced by instructors and students alike. It offers a comprehensive primer for the subject's fundamentals while presenting the most current advances in cryptography. The authors offer comprehensive, in-depth treatment of the methods and protocols that are vital to safeguarding the seemingly infinite and increasing amount of information circulating around the world. Key Features of the Fourth Edition: New chapter on the exciting, emerging new area of post-quantum cryptography (Chapter 9). New high-level, nontechnical overview of the goals and tools of cryptography (Chapter 1). New mathematical appendix that summarizes definitions and main results on number theory and algebra (Appendix A). An expanded treatment of stream ciphers, including common design techniques along with coverage of Trivium. Interesting attacks on cryptosystems, including: padding oracle attack correlation attacks and algebraic attacks on stream ciphers attack on the DUAL-EC random bit generator that makes use of a trapdoor. A treatment of the sponge construction for hash functions and its use in the new SHA-3 hash standard. Methods of key distribution in sensor networks. The basics of visual cryptography, allowing a secure method to split a secret visual message into pieces (shares) that can later be combined to reconstruct the secret. The fundamental techniques cryptocurrencies, as used in Bitcoin and blockchain. The basics of the new methods employed in messaging protocols such as Signal, including deniability and Diffie-Hellman key ratcheting.

Biological Water Gertz I. Likhtenshtein

Mathematical Literacy, Grade 11 Karen Morrison 2012-09-10 Study & Master Mathematical Literacy Grade 11 has been especially developed by an experienced author team according to the Curriculum and Assessment Policy Statement (CAPS). This new and easy-to-use course helps learners to master essential content and skills in Mathematical Literacy. The comprehensive Learner's Book includes: * thorough coverage of the basic skills topics to lay a sound foundation for the development of knowledge, skills and concepts in Mathematical Literacy * margin notes to assist learners with new concepts - especially Link boxes, that refer learners to the basic skills topics covered in Term 1, Unit 1-16 * ample examples with a strong visual input to connect Mathematical Literacy to everyday life.

Colorado River Storage Project and Participating Projects United States. Bureau of Reclamation 1950

Acoustic & Digital Piano Buyer Larry Fine 2013-04-01 The latest supplement to the pianist's must-have reference The Piano Book, this comprehensive guide provides list prices for more than 4,000 currently manufactured acoustic and digital piano brands and models, as well as advice on how to estimate actual street prices to help negotiate the lowest possible price. Summarizing the essentials of The Piano Book, this new resource goes beyond the basics to offer extensive details on digital pianos and reveals all the information necessary to differentiate between a good deal and a great deal when buying a piano. Anyone in the market for a new or used piano—including teachers, technicians, students, and aficionados—can make a more informed purchase using this definitive guide. Updated twice a year with the most accurate information, the manual fully covers piano manufacturers, instrument models, prices, and current trends and conditions in the piano market.

Handbook of Moral and Character Education Larry Nucci 2014-04-24 There is widespread agreement that schools should contribute to the moral development and character formation of their students. In fact, 80% of US states currently have mandates regarding character education. However, the pervasiveness of the support for moral and character education masks a high degree of controversy surrounding its meaning and methods. The purpose of this handbook is to supplant the prevalent ideological rhetoric of the field with a comprehensive, research-oriented volume that both describes the extensive changes that have occurred over the last fifteen years and points forward to the future. Now in its second edition, this book includes the latest applications of developmental and cognitive psychology to moral and character education from preschool to college settings, and much more.

The Complete Commodore Inner Space Anthology Hildon, Karl J. H 1985