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KEY=PDF - MATTHEWS GIDEON

University Physics

"University Physics is a three-volume collection that meets the scope and sequence requirements for two- and three-semester calculus-based physics courses. Volume 1 covers mechanics, sound, oscillations, and waves. This textbook emphasizes connections between theory and application, making physics concepts interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. Frequent, strong examples focus on how to approach a problem, how to work with the equations, and how to check and generalize the result."--Open Textbook Library.

Multiple Sclerosis

Clinical Challenges and Controversies

CRC Press This excellent book provides a fresh approach to multiple sclerosis, detailing the newest developments in a lively style. Particular emphasis is placed on areas of controversy and uncertainty The information conveyed is accessible to all practitioners in the field of multiple sclerosis.

Emergency Response Guidebook

A Guidebook for First Responders during the Initial Phase of a Dangerous Goods/Hazardous Materials Transportation Incident

Simon and Schuster Does the identification number 60 indicate a toxic substance or a flammable solid, in the molten state at an elevated temperature? Does the identification number 1035 indicate ethane or butane? What is the difference between natural gas transmission pipelines and natural gas distribution pipelines? If you came upon an overturned truck on the highway that was leaking, would you be able to identify if it was hazardous and know what steps to take? Questions like these and more are answered in the Emergency Response Guidebook. Learn how to identify symbols for and vehicles carrying toxic, flammable, explosive, radioactive, or otherwise harmful substances and how to respond once an incident involving those substances has been identified. Always be prepared in situations that are unfamiliar and dangerous and know how to rectify them. Keeping this guide around at all times will ensure that, if you were to come upon a transportation situation involving hazardous substances or dangerous goods, you will be able to help keep others and yourself out of danger. With color-coded pages for quick and easy reference, this is

the official manual used by first responders in the United States and Canada for transportation incidents involving dangerous goods or hazardous materials.

International Classification of Diseases for Oncology

ICD-O

World Health Organization This edition of ICD-O, the standard tool for coding diagnoses of neoplasms in tumour and cancer registrars and in pathology laboratories, has been developed by a working party convened by the International Agency for Research on Cancer / WHO. ICD-O is a dual classification with coding systems for both topography and morphology. The book has five main sections. The first provides general instructions for using the coding systems and gives rules for their implementation in tumour registries and pathology laboratories. Section two includes the numerical list of topography codes, which remain unchanged from the previous edition. The numerical list of morphology codes is presented in the next section, which introduces several new terms and includes considerable revisions of the non-Hodgkin lymphoma and leukaemia sections, based on the WHO Classification of Hematopoietic and Lymphoid Diseases. The five-digit morphology codes allow identification of a tumour or cell type by histology, behaviour, and grade. Revisions in the morphology section were made in consultation with a large number of experts and were finalised after field-testing in cancer registries around the world. The alphabetical index gives codes for both topography and morphology and includes selected tumour-like lesions and conditions. A guide to differences in morphology codes between the second and third editions is provided in the final section, which includes lists of all new code numbers, new terms and synonyms added to existing code definitions, terms that changed morphology code, terms for conditions now considered malignant, deleted terms, and terms that changed behaviour code.

Artists' Pigments

A Handbook of Their History and Characteristics

Oxford University Press, USA An encyclopedic reference developed in collaboration with the National Gallery of Art, the Artists' Pigments series combines two aspects of the study of pigments--the history of individual pigments and dyes and scientific methods for identifying and characterizing artists' colorants--rarely brought together in one publication.

College Physics

Breton Publishing Company

Thermally Activated Mechanisms in Crystal Plasticity

Elsevier KEY FEATURES: A unified, fundamental and quantitative resource. The result of 5 years of investigation from researchers around the world New data from a range of new techniques, including synchrotron radiation X-ray topography provide safer and surer methods of identifying deformation mechanisms Informing the future direction of research in intermediate and high temperature processes by providing original treatment of dislocation climb

DESCRIPTION: Thermally Activated Mechanisms in Crystal Plasticity is a unified, quantitative and fundamental resource for material scientists investigating the strength of metallic materials of various structures at extreme temperatures. Crystal plasticity is usually controlled by a limited number of elementary dislocation mechanisms, even in complex structures. Those which determine dislocation mobility and how it changes under the influence of stress and temperature are of key importance for understanding and predicting the strength of materials. The authors describe in a consistent way a variety of thermally activated microscopic mechanisms of dislocation mobility in a range of crystals. The principles of the mechanisms and equations of dislocation motion are revisited and new ones are proposed. These describe mostly friction forces on dislocations such as the lattice resistance to glide or those due to sessile cores, as well as dislocation cross-slip and climb. They are critically assessed by comparison with the best available experimental results of microstructural characterization, in situ straining experiments under an electron or a synchrotron beam, as well as accurate transient mechanical tests such as stress relaxation experiments. Some recent attempts at atomistic modeling of dislocation cores under stress and temperature are also considered since they offer

a complementary description of core transformations and associated energy barriers. In addition to offering guidance and assistance for further experimentation, the book indicates new ways to extend the body of data in particular areas such as lattice resistance to glide.

University Physics

University Physics is a three-volume collection that meets the scope and sequence requirements for two- and three-semester calculus-based physics courses. Volume 1 covers mechanics, sound, oscillations, and waves. Volume 2 covers thermodynamics, electricity and magnetism, and Volume 3 covers optics and modern physics. This textbook emphasizes connections between theory and application, making physics concepts interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. Frequent, strong examples focus on how to approach a problem, how to work with the equations, and how to check and generalize the result. The text and images in this textbook are grayscale.

Handbook of Blockchain, Digital Finance, and Inclusion, Volume 2

ChinaTech, Mobile Security, and Distributed Ledger

Academic Press Handbook of Blockchain, Digital Finance, and Inclusion, Volume 2: ChinaTech, Mobile Security, and Distributed Ledger emphasizes technological developments that introduce the future of finance. Descriptions of recent innovations lay the foundations for explorations of feasible solutions for banks and startups to grow. The combination of studies on blockchain technologies and applications, regional financial inclusion movements, advances in Chinese finance, and security issues delivers a grand perspective on both changing industries and lifestyles. Written for students and practitioners, it helps lead the way to future possibilities. Explains the practical consequences of both technologies and economics to readers who want to learn about subjects related to their specialties Encompasses alternative finance, financial inclusion, impact investing, decentralized consensus ledger and applied cryptography

Provides the only advanced methodical summary of these subjects available today

EU Labour Migration in Troubled Times

Skills Mismatch, Return and Policy Responses

Routledge The debate on the free movement of labour within the EU has gained new momentum in the wake of the economic crisis. Building on the earlier Ashgate publication *EU Labour Migration Since Enlargement*, the editors have assembled a team of experts from across Europe to shed light on the critical issues raised by internal labour mobility within the EU in the context of economic crisis and labour market pressures. The book's chapters tease out the links between economic developments, regulatory frameworks and migration patterns in different European countries. A central focus is on issues of skills and skills mismatch and how they relate to migration forms, duration and individual decisions to stay or return. Based on detailed analysis of European and national-level sources, the results presented clearly contradict assumptions about a "knowledge driven migration". Rather, over-qualification and the corresponding underutilisation of migrant workers' skills emerge as a pervasive phenomenon. At the same time the characteristics of migrants - not just skills, but socio-demographic characteristics and attitudes - and also their labour market integration are shown to be very diverse and to vary substantially between different sending and receiving countries. This calls for a differentiated analysis and raises complex issues for policymakers. Examples where policy has contributed to positive outcomes for both migrants and domestic workforces are identified. Unique in analysing labour migration flows within the European Union in a comparative manner putting skills into the centre and taking account of the effects of the economic crisis, while addressing policy concerns this is a valuable resource for academics, policymakers and practitioners alike.

Working Towards a Blue Future: Promoting

Sustainability, Environmental Protection and Marine Management: Examples from the UK Government Blue Belt Programme and Current International Initiatives

Frontiers Media SA

Mathematics for Machine Learning

Cambridge University 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.

Harvard Law Review: Volume 130, Number 3 - January

2017

Quid Pro Books

Microbiology

"Microbiology covers the scope and sequence requirements for a single-semester microbiology course for non-majors. The book presents the core concepts of microbiology with a focus on applications for careers in allied health. The pedagogical features of the text make the material interesting and accessible while maintaining the career-application focus and scientific rigor inherent in the subject matter. Microbiology's art program enhances students' understanding of concepts through clear and effective illustrations, diagrams, and photographs. Microbiology is produced through a collaborative publishing agreement between OpenStax and the American Society for Microbiology Press. The book aligns with the curriculum guidelines of the American Society for Microbiology."--BC Campus website.

An Introduction to Statistical Learning with Applications in R

Springer Science & Business Media An Introduction to Statistical Learning provides an accessible overview of the field of statistical learning, an essential toolset for making sense of the vast and complex data sets that have emerged in fields ranging from biology to finance to marketing to astrophysics in the past twenty years. This book presents some of the most important modeling and prediction techniques, along with relevant applications. Topics include linear regression, classification, resampling methods, shrinkage approaches, tree-based methods, support vector machines, clustering, and more. Color graphics and real-world examples are used to illustrate the methods presented. Since the goal of this textbook is to facilitate the use of these statistical learning techniques by practitioners in science, industry, and other fields, each chapter contains a tutorial on implementing the analyses and methods presented in R, an extremely popular open source statistical software platform. Two of the authors co-wrote The Elements of

Statistical Learning (Hastie, Tibshirani and Friedman, 2nd edition 2009), a popular reference book for statistics and machine learning researchers. An Introduction to Statistical Learning covers many of the same topics, but at a level accessible to a much broader audience. This book is targeted at statisticians and non-statisticians alike who wish to use cutting-edge statistical learning techniques to analyze their data. The text assumes only a previous course in linear regression and no knowledge of matrix algebra.

Proofs from THE BOOK

Springer Science & Business Media According to the great mathematician Paul Erdős, God maintains perfect mathematical proofs in The Book. This book presents the authors candidates for such "perfect proofs," those which contain brilliant ideas, clever connections, and wonderful observations, bringing new insight and surprising perspectives to problems from number theory, geometry, analysis, combinatorics, and graph theory. As a result, this book will be fun reading for anyone with an interest in mathematics.

Transmission Electron Microscopy

Diffraction, Imaging, and Spectrometry

Springer This text is a companion volume to Transmission Electron Microscopy: A Textbook for Materials Science by Williams and Carter. The aim is to extend the discussion of certain topics that are either rapidly changing at this time or that would benefit from more detailed discussion than space allowed in the primary text. World-renowned researchers have contributed chapters in their area of expertise, and the editors have carefully prepared these chapters to provide a uniform tone and treatment for this exciting material. The book features an unparalleled collection of color figures showcasing the quality and variety of chemical data that can be obtained from today's instruments, as well as key pitfalls to avoid. As with the previous TEM text, each chapter contains two sets of questions, one for self assessment and a second more suitable for homework assignments. Throughout the book, the style follows that of Williams & Carter even when the subject matter becomes challenging—the aim is always to make the topic understandable by first-year graduate students and others who are working in the field of Materials Science

Topics covered include sources, in-situ experiments, electron diffraction, Digital Micrograph, waves and holography, focal-series reconstruction and direct methods, STEM and tomography, energy-filtered TEM (EFTEM) imaging, and spectrum imaging. The range and depth of material makes this companion volume essential reading for the budding microscopist and a key reference for practicing researchers using these and related techniques.

Multiple Sclerosis 3

Saunders Covers the latest clinical advances and relevant discussions, Biomarkers, Genomics, and Surrogate Outcomes in MS; Pediatric MS; Transverse Myelitis; Attack Therapies in MS; Current Disease-Modifying Therapeutic Strategies in MS; Management of Aggressive MS; Symptomatic Therapies in MS; Complementary and Alternative Medical Therapies; and Strategies to Promote Neuroprotection and Repair, to bring you up to date and keep your practice state-of-the-art. Features a greater emphasis on practical management to help you determine the type of multiple sclerosis and the best course of therapy. Focuses on pharmaceutical therapies so you know the best and most aggressive methods and which drugs to use for treatment. Includes extensive information on differential diagnosis so that you can clearly distinguish between multiple sclerosis and other similar demyelinating disorders. Presents expert new editors and experienced contributing authors for the most current and relevant practice information.-

Laboratory Methods in Enzymology: Protein

Academic Press Laboratory Methods in Enzymology: Protein Part B brings together a number of core protocols concentrating on protein, carefully written and edited by experts. Indispensable tool for the researcher Carefully written and edited by experts to contain step-by-step protocols In this volume we have brought together a number of core protocols concentrating on protein

Astronomy

Astronomy is written in clear non-technical language, with the occasional touch of humor and a wide range of clarifying illustrations. It has many analogies drawn from everyday life to help non-science majors appreciate, on their own terms, what our modern exploration of the universe is revealing. The book can be used for either a one-semester or

two-semester introductory course (bear in mind, you can customize your version and include only those chapters or sections you will be teaching.) It is made available free of charge in electronic form (and low cost in printed form) to students around the world. If you have ever thrown up your hands in despair over the spiraling cost of astronomy textbooks, you owe your students a good look at this one. Coverage and Scope Astronomy was written, updated, and reviewed by a broad range of astronomers and astronomy educators in a strong community effort. It is designed to meet scope and sequence requirements of introductory astronomy courses nationwide. Chapter 1: Science and the Universe: A Brief Tour Chapter 2: Observing the Sky: The Birth of Astronomy Chapter 3: Orbits and Gravity Chapter 4: Earth, Moon, and Sky Chapter 5: Radiation and Spectra Chapter 6: Astronomical Instruments Chapter 7: Other Worlds: An Introduction to the Solar System Chapter 8: Earth as a Planet Chapter 9: Cratered Worlds Chapter 10: Earthlike Planets: Venus and Mars Chapter 11: The Giant Planets Chapter 12: Rings, Moons, and Pluto Chapter 13: Comets and Asteroids: Debris of the Solar System Chapter 14: Cosmic Samples and the Origin of the Solar System Chapter 15: The Sun: A Garden-Variety Star Chapter 16: The Sun: A Nuclear Powerhouse Chapter 17: Analyzing Starlight Chapter 18: The Stars: A Celestial Census Chapter 19: Celestial Distances Chapter 20: Between the Stars: Gas and Dust in Space Chapter 21: The Birth of Stars and the Discovery of Planets outside the Solar System Chapter 22: Stars from Adolescence to Old Age Chapter 23: The Death of Stars Chapter 24: Black Holes and Curved Spacetime Chapter 25: The Milky Way Galaxy Chapter 26: Galaxies Chapter 27: Active Galaxies, Quasars, and Supermassive Black Holes Chapter 28: The Evolution and Distribution of Galaxies Chapter 29: The Big Bang Chapter 30: Life in the Universe Appendix A: How to Study for Your Introductory Astronomy Course Appendix B: Astronomy Websites, Pictures, and Apps Appendix C: Scientific Notation Appendix D: Units Used in Science Appendix E: Some Useful Constants for Astronomy Appendix F: Physical and Orbital Data for the Planets Appendix G: Selected Moons of the Planets Appendix H: Upcoming Total Eclipses Appendix I: The Nearest Stars, Brown Dwarfs, and White Dwarfs Appendix J: The Brightest Twenty Stars Appendix K: The Chemical Elements Appendix L: The Constellations Appendix M: Star Charts and Sky Event Resources

NPCIL Plant Operator Stage 2 Guide 2021: Download

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NPCIL Plant Operator Stage 2 Guide 2021: An Expert E-Book to Crack the NPCIL Operator Advanced Test!

Testbook.com This exclusive NPCIL Plant Operator Stage 2 Guide 2021 helps aspirants to attempt the full mock test concepts with an answer key. Now use this practice set with solved examples on NPCIL Operator Advanced Test syllabus to ace the Plant Operator spot.

Precalculus

Precalculus is adaptable and designed to fit the needs of a variety of precalculus courses. It is a comprehensive text that covers more ground than a typical one- or two-semester college-level precalculus course. The content is organized by clearly-defined learning objectives, and includes worked examples that demonstrate problem-solving approaches in an accessible way. Coverage and Scope Precalculus contains twelve chapters, roughly divided into three groups. Chapters 1-4 discuss various types of functions, providing a foundation for the remainder of the course. Chapter 1: Functions Chapter 2: Linear Functions Chapter 3: Polynomial and Rational Functions Chapter 4: Exponential and Logarithmic Functions Chapters 5-8 focus on Trigonometry. In Precalculus, we approach trigonometry by first introducing angles and the unit circle, as opposed to the right triangle approach more commonly used in College Algebra and Trigonometry courses. Chapter 5: Trigonometric Functions Chapter 6: Periodic Functions Chapter 7: Trigonometric Identities and Equations Chapter 8: Further Applications of Trigonometry Chapters 9-12 present some advanced Precalculus topics that build on topics introduced in chapters 1-8. Most Precalculus syllabi include some of the topics in these chapters, but few include all. Instructors can select material as needed from this group of chapters, since they are not cumulative. Chapter 9: Systems of Equations and Inequalities Chapter 10: Analytic Geometry Chapter 11: Sequences, Probability and Counting Theory Chapter 12: Introduction to Calculus

Red Book 2018

Report of the Committee on Infectious Diseases

The AAP's authoritative guide on preventing, recognizing, and treating more than 200 childhood infectious diseases. Developed by the AAP's Committee on Infectious Diseases as well as the expertise of the CDC, the FDA, and hundreds of physician contributors.

Essentials of Glycobiology

CSHL Press Sugar chains (glycans) are often attached to proteins and lipids and have multiple roles in the organization and function of all organisms. "Essentials of Glycobiology" describes their biogenesis and function and offers a useful gateway to the understanding of glycans.

Handbook of the Behavioral Neurobiology of Serotonin

Academic Press Serotonin (5-hydroxytryptamine, often cited as 5-HT) is one of the major excitatory neurotransmitter, and the serotonergic system is one of the best studied and understood transmitter systems. It is crucially involved in the organization of virtually all behaviours and in the regulation of emotion and mood. Alterations in the serotonergic system, induced by e.g. learning or pathological processes, underlie behavioural plasticity and changes in mood, which can finally results in abnormal behaviour and psychiatric conditions. Not surprisingly, the serotonergic system and its functional components appear to be targets for a multitude of pharmacological treatments - examples of very successful drugs targeting the serotonergic system include Prozac and Zoloft. The last decades of research have not only fundamentally expanded our view on serotonin but also revealed in much more detail an astonishing complexity of this system, which comprises a multitude of receptors and signalling pathways. A detailed view on its role in basal, but also complex, behaviours emerged, and, was presented in a number of single review articles. Although much is known now, the serotonergic system is still a fast growing field of research contributing to our present understanding of the brains function during normal and disturbed behaviour. This handbook aims towards a detailed and

comprehensive overview over the many facets of behavioural serotonin research. As such, it will provide the most up to date and thorough reading concerning the serotonergic systems control of behaviour and mood in animals and humans. The goal is to create a systematic overview and first hand reference that can be used by students and scholars alike in the fields of genetics, anatomy, pharmacology, physiology, behavioural neuroscience, pathology, and psychiatry. The chapters in this book will be written by leading scientists in this field. Most of them have already written excellent reviews in their field of expertise. The book is divided in 4 sections. After an historical introduction, illustrating the growth of ideas about serotonin function in behaviour of the last forty years, section A will focus on the functional anatomy of the serotonergic system. Section B provides a review of the neurophysiology of the serotonergic system and its single components. In section C the involvement of serotonin in behavioural organization will be discussed in great detail, while section D deals with the role of serotonin in behavioural pathologies and psychiatric disorders. The first handbook broadly discussing the behavioral neurobiology of the serotonergic transmitter system Co-edited by one of the pioneers and opinion leaders of the past decades, Barry Jacobs (Princeton), with an international list (10 countries) of highly regarded contributors providing over 50 chapters, and including the leaders in the field in number of articles and citations: K. P. Lesch, T. Sharp, A. Caspi, P. Blier, G.K. Aghajanian, E. C. Azmitia, and others The only integrated and complete resource on the market containing the best information integrating international research, providing a global perspective to an international community Of great value not only for researchers and experts, but also for students and clinicians as a background reference

US Healthcare Sector - Organization, Management and Payment Systems Handbook Volume 1 Strategic Information, Developments, Reforms

Lulu.com

5th International Conference on Nanotechnologies and Biomedical Engineering

Proceedings of ICNBME-2021, November 3–5, 2021,
Chisinau, Moldova

Springer Nature

Nucleation in Condensed Matter

Applications in Materials and Biology

Elsevier In Nucleation in Condensed Matter, key theoretical models for nucleation are developed and experimental data are used to discuss their range of validity. A central aim of this book is to enable the reader, when faced with a phenomenon in which nucleation appears to play a role, to determine whether nucleation is indeed important and to develop a quantitative and predictive description of the nucleation behavior. The third section of the book examines nucleation processes in practical situations, ranging from solid state precipitation to nucleation in biological systems to nucleation in food and drink. Nucleation in Condensed Matter is a key reference for an advanced materials course in phase transformations. It is also an essential reference for researchers in the field. Unified treatment of key theories, experimental evaluations and case studies Complete derivation of key models Detailed discussion of experimental measurements Examples of nucleation in diverse systems

Oceanobs'19: An Ocean of Opportunity. Volume III

Frontiers Media SA

Bandit Algorithms

Cambridge University Press A comprehensive and rigorous introduction for graduate students and researchers, with applications in sequential decision-making problems.

Neuro-Oncology E-Book

Blue Books of Neurology Series

Elsevier Health Sciences Neuro-Oncology—a new title in the Blue Books of Practical Neurology series—is a concise and clinically applicable guide to this dynamic subspecialty. Jeremy Rees, PhD, MRCP and Patrick Y. Wen, MD present the most current information on the treatment and management of primary CNS tumors, secondary brain tumors, and the neurological complications of other cancers and their therapies in a format and scope appealing to both the general neurologist and the subspecialist. Access comprehensive coverage of treatment for adult and pediatric conditions—including tumors of the spinal cord as well as the brain. Find coverage of recent advances easily thanks to the emphasis on the latest clinical and laboratory findings and their implications for clinical management and treatment. Apply the possibilities and outcomes of neuro-oncologic surgery within the context of neurologic practice. Address the neurologic complications of cancer and its treatment as well as of primary and secondary tumors. Tap into the global perspectives of experts from all around the world for a multi-disciplinary approach to practice.

Ecosystem Services Come To Town

Greening Cities by Working with Nature

John Wiley & Sons The need to find new approaches to the development of cities is becoming increasingly urgent in this age of continuing population growth, demographic transition, climate change, fossil fuel peak and biodiversity losses. Restoring ecosystem services and promoting biodiversity is essential to sustainable development - even in the built environment. **Ecosystem Services come to Town: greening cities by working with nature** demonstrates how to make urban environments greener. It starts by explaining how, by mimicking nature and deliberately creating habitats to provide ecosystem services, cities can become more efficient and more pleasant to live in. The history of cities and city planning is covered with the impacts of industrial urban development described, as well as the contemporary concerns of biodiversity loss, peak oil and climate change. The later sections offer solutions to the challenges of sustainable urban development by describing and explaining a whole range of approaches and interventions, beginning at the regional scale with strategic green infrastructure, looking at districts and precincts, with trees, parks and rain gardens and ending with single buildings, including with green roofs and living walls. Technical enough to be valuable to practitioners but still readable and inspirational, this guide demonstrates to town planners, urban designers, architects, engineers, landscape architects how to make cities more liveable.

U.S. History

Published by OpenStax College, **U.S. History** covers the breadth of the chronological history of the United States and also provides the necessary depth to ensure the course is manageable for instructors and students alike. **U.S. History** is designed to meet the scope and sequence requirements of most courses. The authors introduce key forces and major developments that together form the American experience, with particular attention paid to considering issues of race, class and gender. The text provides a balanced approach to U.S. history, considering the people, events and ideas that have shaped the United States from both the top down (politics, economics, diplomacy) and bottom up (eyewitness accounts, lived experience).

Chemistry 2e

Transmission Electron Microscopy

A Textbook for Materials Science

Taylor & Francis US This groundbreaking text provides the necessary instructions for hands-on application of this versatile materials characterization technique and is supported by over 600 illustrations and diagrams.

Capital

Penguin UK The "forgotten" second volume of Capital, Marx's world-shaking analysis of economics, politics, and history, contains the vital discussion of commodity, the cornerstone to Marx's theories.

Popular Science

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Complex Analysis

Princeton University Press With this second volume, we enter the intriguing world of complex analysis. From the first theorems on, the elegance and sweep of the results is evident. The starting point is the simple idea of extending a function initially given for real values of the argument to one that is defined when the argument is complex. From there, one proceeds to the main properties of holomorphic functions, whose proofs are generally short and quite illuminating: the Cauchy theorems, residues, analytic continuation, the argument principle. With this background, the

reader is ready to learn a wealth of additional material connecting the subject with other areas of mathematics: the Fourier transform treated by contour integration, the zeta function and the prime number theorem, and an introduction to elliptic functions culminating in their application to combinatorics and number theory. Thoroughly developing a subject with many ramifications, while striking a careful balance between conceptual insights and the technical underpinnings of rigorous analysis, *Complex Analysis* will be welcomed by students of mathematics, physics, engineering and other sciences. The Princeton Lectures in Analysis represents a sustained effort to introduce the core areas of mathematical analysis while also illustrating the organic unity between them. Numerous examples and applications throughout its four planned volumes, of which *Complex Analysis* is the second, highlight the far-reaching consequences of certain ideas in analysis to other fields of mathematics and a variety of sciences. Stein and Shakarchi move from an introduction addressing Fourier series and integrals to in-depth considerations of complex analysis; measure and integration theory, and Hilbert spaces; and, finally, further topics such as functional analysis, distributions and elements of probability theory.

Psychology 2e

Commerce Business Daily