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Scientific advances in this field have not only given us a better understanding of what is an optimal diet, but has allowed food and nutraceutical companies to market products with specific health claims, fortify existing foods, and even create new foods designed for a particular health benefit. Handbook of Nutraceuticals and Functional Foods, Second Edition, compiles the latest data from authoritative, scientific sources. It provides hard evidence on the prophylactic and medicinal properties of many natural foods. This handbook reviews more than 200 nutraceutical compounds. Each chapter includes the chemical properties, biochemical activity, dietary sources, and evidentiary findings for each compound. New topics include the use of exopolysaccharides from lactic acid bacteria, protein as a functional ingredient for weight loss, and nutraceuticals to be used in the adjunctive treatment of depression. Two new chapters discuss recent evidence on oxidative stress and the antioxidant requirements of athletes as well as the use of nutraceuticals for inflammation. The scientific investigation of nutrition and lifestyle changes on the pain and debilitation of osteoarthritis is the subject of another new article. The book concludes with a look at future marketing opportunities paying particular attention to the alleviation of obesity. With contributions from a panel of leading international experts, Handbook of Nutraceuticals and Functional Foods, Second Edition, provides instant access to comprehensive, cutting edge data, making it possible for food scientists, nutritionists, and researchers to utilize this ever growing wealth of information. This book constitutes the refereed proceedings of the 7th International Conference on Concept Mapping, CMC 2016, held in Tallinn, Estonia, in September 2016. The 25 revised full papers

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presented were carefully reviewed and selected from 135 submissions. The papers address issues such as facilitation of learning; eliciting, capturing, archiving, and using “expert” knowledge; planning instruction; assessment of “deep” understandings; research planning; collaborative knowledge modeling; creation of “knowledge portfolios”; curriculum design; eLearning, and administrative and strategic planning and monitoring.

Edited by one of the leading experts in the field, this handbook emphasizes why solid-state issues are important, which approaches should be taken to avoid problems and exploit the opportunities offered by solid state properties in the pharmaceutical and agricultural industries. With its practical approach, this is at once a guideline for development chemists just entering the field as well as a high-quality source of reference material for specialists in the pharmaceutical and chemical industry, structural chemists, physicochemists, crystallographers, inorganic chemists, and patent departments.

This book constitutes the refereed proceedings of the International Conference on Advances in Information Technology and Mobile Communication, AIM 2011, held at Nagpur, India, in April 2011. The 31 revised full papers presented together with 27 short papers and 34 poster papers were carefully reviewed and selected from 313 submissions. The papers cover all current issues in theory, practices, and applications of Information Technology, Computer and Mobile Communication Technology and related topics.

Army Biometric Applications

Innovating with Concept Mapping

Loans in Colonial and Modern Nahuatl

Genetic Basis and Clinical Implications

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Report

Marine Lipids 2017

This new edition of the bestselling *Microlithography: Science and Technology* provides a balanced treatment of theoretical and operational considerations, from elementary concepts to advanced aspects of modern submicron microlithography. Each chapter reflects the current research and practices from the world's leading academic and industrial laboratories detailed by a stellar panel of international experts. New in the Second Edition In addition to updated information on existing material, this new edition features coverage of technologies developed over the last decade since the first edition appeared, including: Immersion Lithography 157nm Lithography Electron Projection Lithography (EPL) Extreme Ultraviolet (EUV) Lithography Imprint Lithography Photoresists for 193nm and Immersion Lithography Scatterometry *Microlithography: Science and Technology, Second Edition* authoritatively covers the physics, chemistry, optics, metrology tools and techniques, resist processing and materials, and fabrication methods involved in the latest generations of microlithography such as immersion lithography and extreme ultraviolet (EUV) lithography. It also looks ahead to the possible future systems and technologies that will bring the next generations to fruition. Loaded with illustrations, equations, tables, and time-saving references to the most current literature, this book is the most comprehensive and reliable source for anyone, from student to seasoned professional, looking to achieve robust, accurate, and cost-

effective microlithography processes and systems.

Focusing specifically on the management of karst environments, this volume draws together the world's leading karst experts to provide a vital source for the study and management of this unique physical setting. Although karst landscapes cover 12% of the Earth's terrain and provide 25% of the world's drinking water, the resource management of karst environments has only previously received indirect attention. Through a comprehensive approach, Karst Management focuses on engineering issues associated with surface karst such as quarries, dams, and agriculture, subsurface topics such as the management of groundwater, show caves, cave biota, and geo-archaeology projects. Chapters that focus on karst as an integrated system look at IUCN World Heritage sites, national parks, policy and regulation, measuring systematic disturbance, information management, and public environmental education. The text incorporates the most up-to-date research from leading karst scientists. This volume provides important perspectives for university students, educators, geoengineers, resource managers, and planners who are interested in or work with this unique physical landscape.

The popular image of Scotland is dominated by widely recognized elements of Celtic culture. But a significant non – Celtic influence on Scotland's history has been largely ignored for centuries? This book argues that much of Scotland's history and culture from 1100 forward is Jewish. The authors provide evidence that many of the national

heroes, villains, rulers, nobles, traders, merchants, bishops, guild members, burgesses, and ministers of Scotland were of Jewish descent, their ancestors originating in France and Spain. Much of the traditional historical account of Scotland, it is proposed, rests on fundamental interpretive errors, perpetuated in order to affirm Scotland's identity as a Celtic, Christian society. A more accurate and profound understanding of Scottish history has thus been buried. The authors' wide-ranging research includes examination of census records, archaeological artifacts, castle carvings, cemetery inscriptions, religious seals, coinage, burgess and guild member rolls, noble genealogies, family crests, portraiture, and geographic place names.

With this handbook, the distinguished team of editors has combined the expertise of leading nanomaterials scientists to provide the latest overview of this field. They cover the whole spectrum of nanomaterials, ranging from theory, synthesis, properties, characterization to application, including such new developments as quantum dots, nanoparticles, nanoporous materials, nanowires, nanotubes, and nanostructured polymers. The result is recommended reading for everybody working in nanoscience: Newcomers to the field can acquaint themselves with this exciting subject, while specialists will find answers to all their questions as well as helpful suggestions for further research.

Information Technology and Mobile Communication
China Made

DNA Evidence, Archeology, Analysis of Migrations, and Public and Family Records Show Twelfth Century Semitic Roots

Handbook of Nutraceuticals and Functional Foods, Second Edition

Oral Mucosal Drug Delivery and Therapy

Social Structure in Divided Germany

This book is a printed edition of the Special Issue "Marine Lipids 2017" that was published in Marine Drugs

This book offers a comprehensive review on biomass resources, examples of biorefineries and corresponding products. The first part of this book covers topics such as different biorefinery resources from agriculture, wood processing residues and transport logistics of plant biomass. In the second part, expert contributors present biorefinery concepts of different biomass feedstocks, including vegetable-oils, sugarcane, starch, lignocellulose and microalgae. Readers will find here a summary of the syngas utilization and the bio-oil characterization and potential use as an alternative renewable fuel and source for chemical feedstocks. Particular attention is also given to the anaerobic digestion-based and Organosolv biorefineries. The last part of the book examines relevant products and components such as alcohols, hydrocarbons, bioplastics and lignin, and offers a sustainability evaluation of biorefineries.

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NOTE: This edition features the same content as the traditional text in a convenient, three-hole-punched, loose-leaf version. Books a la Carte also offer a great value-this format costs significantly less than a new textbook. Before purchasing, check with your instructor or review your course syllabus to ensure that you select the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title, including customized versions for individual schools, and registrations are not transferable. In addition, you may need a CourseID, provided by your instructor, to register for and use Pearson's MyLab & Mastering products. For junior/senior undergraduates taking probability and statistics as applied to engineering, science, or computer science. This classic text provides a rigorous introduction to basic probability theory and statistical inference, with a unique balance between theory and methodology. Interesting, relevant applications use real data from actual studies, showing how the concepts and methods can be used to solve problems in the field. This revision focuses on improved clarity and deeper understanding. This latest edition is also available in as an enhanced Pearson eText. This exciting new version features an embedded version of StatCrunch, allowing students to analyze data sets while reading the book. Also available with MyStatLab MyStatLab(tm) is an online homework, tutorial, and assessment program designed to work with this text to engage students and

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improve results. Within its structured environment, students practice what they learn, test their understanding, and pursue a personalized study plan that helps them absorb course material and understand difficult concepts. Note: You are purchasing a standalone product; MyLab(tm) & Mastering(tm) does not come packaged with this content. Students, if interested in purchasing this title with MyLab & Mastering, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information.

This volume provides a comprehensive overview of the current issues facing scientists working on delivering drugs locally and systemically via the membranes that line the mouth. The book describes the anatomical and physiological challenges of this route for drug delivery and how they impact the design of oral mucosal drug delivery systems. It also provides a detailed description of current oral mucosal drug delivery technologies that overcome these challenges alongside research, development and assessment methods. In 11 authoritative chapters, the book affords an in-depth evaluation of the major issues associated with this route of administration, namely the retention of the drug/product at the site of administration and increasing drug permeability through the oral mucosa. The book provides insights into the in vitro and in vivo methods available to assess drug permeability and retention, offers

solutions on how to improve the permeation of the drugs through the oral mucosa, and explores approaches to prolong drug/product retention at the site of administration. It also indicates future directions in research and product development. Oral Mucosal Drug Delivery and Therapy is a key resource for those wishing to extend their knowledge of this field.

Principles of Metabolic Surgery

Polymorphism

The Marine Mammals of the Gulf of Mexico

Workshop Summary

Handbook of Research on Family Business

International Conference, AIM 2011, Nagpur, Maharashtra, India, April 21-22, 2011, Proceedings

Given in honor of District Governor Hugh Summers and Mrs. Ahnise Summers by the Rotary Club of Aggieland with matching support from the Sara and John H. Lindsey '44 Fund, Texas A & M University Press, 2004.

Nanotechnology is considered as one of the emerging fields of science. It has applications in different biological and technological fields which deal with the science of materials at nanoscale (10⁻⁹). On the other hand, biotechnology is another field that deals with contemporary challenges. Nanobiotechnology fills the gap between these two fields. It merges physical, chemical, and biological principles in a single realm. This combination opens up new

possibilities. At nanoscale dimensions, it creates precise nanocrystals and nanoshells. Integrated nanomaterials are used with modified surface layers for compatibility with living systems, improved dissolution in water, or biorecognition leading to enhanced end results in biotechnological systems. These nanoparticles can also be hybridized with additional biocompatible substances in order to amend their qualities to inculcate novel utilities. Nanobiotechnology is used in bioconjugate chemistry by coalescing up the functionality of non-organically obtained molecular components and biological molecules in order to veil the immunogenic moieties for targeted drug delivery, bioimaging and biosensing. This book blends the science of biology, medicine, bioinorganic chemistry, bioorganic chemistry, material and physical sciences, biomedical engineering, electrical, mechanical, and chemical science to present a comprehensive range of advancements. The development of nano-based materials has made for a greater understanding of their characterization, using techniques such as transmission electron microscope, FTIR, X-ray diffraction, scanning electron microscope EDX, and so on. This volume also highlights uses in environmental remediation, environmental biosensors and environmental protection. It also emphasizes the significance of nanobiotechnology to a series of medical applications viz., diagnostics, and therapeutics stem cell technology, tissue engineering enzyme engineering, drug development and delivery. In addition this book also offers a distinctive understanding of nanobiotechnology from researchers and educators and gives a comprehensive facility for future developments and current applications of nanobiotechnology.

For physicians and surgeons entrusted with the care of patients with morbid obesity and related diseases; also for nurses and other professionals on the team. „Principles of Metabolic Surgery“ delivers a succinct account of current knowledge and an excellent overview of modern treatment strategies for morbid obesity. Attractively designed, this user-friendly textbook provides the latest on therapy, monitoring, and management, including: -Completely up-to-date coverage of modern metabolic surgery -Current understanding of the pathophysiology of morbid obesity -Current clinical therapy strategies for conservative and surgical approaches -Recent references In concise, readable chapters, this well-illustrated textbook outlines major concerns and considerations surrounding metabolic surgery. With respect to new insights from basic and clinical research, clear guidelines and practical clinical advice are given to improve the outcome of treatment for morbid obesity.

Modeling, Simulation, Design and Engineering of WDM Systems and Networks provides readers with the basic skills, concepts, and design techniques used to begin design and engineering of optical communication systems and networks at various layers. The latest semi-analytical system simulation techniques are applied to optical WDM systems and networks, and a review of the various current areas of optical communications is presented. Simulation is mixed with experimental verification and engineering to present the industry as well as state-of-the-art research. This contributed volume is divided into three parts, accommodating different readers interested in various types of networks and applications. The first part of the book presents modeling approaches and simulation tools mainly for the physical layer including

transmission effects, devices, subsystems, and systems), whereas the second part features more engineering/design issues for various types of optical systems including ULH, access, and in-building systems. The third part of the book covers networking issues related to the design of provisioning and survivability algorithms for impairment-aware and multi-domain networks. Intended for professional scientists, company engineers, and university researchers, the text demonstrates the effectiveness of computer-aided design when it comes to network engineering and prototyping.

In the Pharmaceutical Industry

The Fall of Rome

When Scotland Was Jewish

Global Perspectives on the Biology and Life History of the White Shark

A Contextual Dictionary

WDM Systems and Networks

When the Tripods Came Simon and Schuster

Experience the beginning of the Tripods' reign in this prequel to the classic alien trilogy ideal for fans of Rick Yancey's The 5th Wave and Margaret Peterson Haddix's Shadow Children series. When it comes to alien invasions, bad things come in threes. Three landings: one in England, one in Russia, and one in the United States. Three long legs, crushing everything in their

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paths, with three metallic arms, snacking out to embrace—and then discard—their helpless victims. Three evil beings, called Tripods, which will change life on Earth forever.

E-Books in Academic Libraries: Stepping Up to the Challenge provides readers with a view of the changing and emerging roles of electronic books in higher education. The three main sections contain contributions by experts in the publisher/vendor arena, as well as by librarians who report on both the challenges of offering and managing e-books and on the issues surrounding patron use of e-books. The case study section offers perspectives from seven different sizes and types of libraries whose librarians describe innovative and thought-provoking projects involving e-books. Read about perspectives on e-books from organizations as diverse as a commercial publisher and an association press. Learn about the viewpoint of a jobber. Find out about the e-book challenges facing librarians, such as the quest to control costs in the patron-driven acquisitions (PDA) model, how to solve the dilemma of resource sharing with e-books, and how to manage PDA in the consortial environment. See what patron use of e-books reveals about reading habits and

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disciplinary differences. Finally, in the case study section, discover how to promote scholarly e-books, how to manage an e-reader checkout program, and how one library replaced most of its print collection with e-books. These and other examples illustrate how innovative librarians use e-books to enhance users' experiences with scholarly works.

The Encyclopedia of Caves and Karst Science contains 350 alphabetically arranged entries. The topics include cave and karst geoscience, cave archaeology and human use of caves, art in caves, hydrology and groundwater, cave and karst history, and conservation and management. The Encyclopedia is extensively illustrated with photographs, maps, diagrams, and tables, and has thematic content lists and a comprehensive index to facilitate searching and browsing.

Themes and Variations

7th International Conference on Concept Mapping, CMC 2016, Tallinn, Estonia, September 5-9, 2016, Proceedings

Coal Resources

Encyclopedia of Caves and Karst Science

Ultrafast Optics

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Ecology, Life History, and Systematics

Good, No Highlights, No Markup, all pages are intact, Slight Shelfwear, may have the corners slightly dented, may have slight color changes/slightly damaged spine.

Agroforestry is recognized as a sustainable land-use management in the tropics, as it provides environmental-friendly ecosystems; it also provides people with their every day need for food and cash. Since the recognition of agroforestry as a science, curricula have been developed for agroforestry programs for undergraduate and graduate trainings in Universities. Therefore, there is an urgent need to develop and make available educational material. This textbook strives to provide up-to-date information on tropical agroforestry to serve as educational material in the tropical context. The authoritative textbook of Nair (1993) on agroforestry was published 18 years ago, and before the advent of tree domestication, an important agroforestry practice today. In addition, many other research activities, such as carbon sequestration and integrated pest management, have been included in the agroforestry agenda. This textbook is intended for agroforestry students, teachers, and practitioners.

This book provides information on a wide variety of issues ranging from

genetics to clinical description of the syndromes, genetic testing and counseling, and clinical management including surveillance, surgical and prophylactic interventions, and chemoprevention. Moreover, current hot issues, such as the identification of novel causal genes and the challenges we face, and the relevance of cancer risk modifiers, both genetic and environmental, are also discussed. This reference book is great for geneticists, oncologists, genetic counselors, researchers, clinicians, surgeons and nurses dedicated to, or interested in, hereditary cancer. The best and most recognized experts in the field have contributed to this project, guaranteeing updated information, accuracy and the discussion of topical issues.

Every human possesses more than one virtually infallible form of identification. Known as biometrics, examples include fingerprints, iris and retinal scans, hand geometry, and other measures of physical characteristics and personal traits. Advances in computers and related technologies have made this a highly automated process through which recognition occurs almost instantaneously. With concern about its information assurance systems and physical access control increasing, the Army has undertaken an assessment of how it can use biometrics to improve security, efficiency, and convenience. This report examines the sociocultural concerns that arise among soldiers,

civilian employees, and the general public when the military mandates widespread use of biometrics. The authors see no significant legal obstacles to Army use of biometrics but recommend that the Army go beyond the provisions of the Privacy Act of 1974 to allay concerns related to this emerging technology. This report should be of interest to those responsible for access control as well as anyone concerned about privacy and technology issues.

Non-transient, Non-community Water Systems

Nanomaterials and Environmental Biotechnology

Promising Strategies to Reduce Gun Violence

Recent Developments and New Directions

Modeling, Simulation, Design and Engineering

And the End of Civilization

Aquatic Dicotyledons of North America: Ecology, Life History, and Systematics brings together a wealth of information on the natural history, ecology, and systematics of North American aquatic plants. Most books on aquatic plants have a taxonomic focus and are intended primarily for identification. Instead, this book provides a comprehensive overview of the biology of major aquatic species by compiling information from numerous sources that lie scattered among the primary literature, herbarium databases, and other reference materials. Included dicotyledon species are those having an obligate (OBL) wetland status, a designation used in the USACE

National Wetland Plant List. Recent phylogenetic analyses are incorporated and rationale is provided for interpreting this information with respect to species relationships. This diverse assemblage of information will be useful to a wide range of interests including academic researchers, wildlife managers, students, and virtually anyone interested in the natural history of aquatic and wetland plants. Although focusing specifically on North America, the cosmopolitan distribution of many aquatic plants should make this an attractive text to people working virtually anywhere outside of the region as well. This book is an essential resource for assisting with wetland delineation.

The twentieth century witnessed an era of unprecedented, large-scale, anthropogenic changes to the natural environment. Understanding how environmental factors directly and indirectly affect the emergence and spread of infectious disease has assumed global importance for life on this planet. While the causal links between environmental change and disease emergence are complex, progress in understanding these links, as well as how their impacts may vary across space and time, will require transdisciplinary, transnational, collaborative research. This research may draw upon the expertise, tools, and approaches from a variety of disciplines. Such research may inform improvements in global readiness and capacity for surveillance, detection, and response to emerging microbial threats to plant, animal, and human health. The Influence of Global Environmental Change on Infectious Disease Dynamics is the summary of a workshop hosted by the Institute of Medicine Forum on Microbial Threats in September 2013 to explore the scientific and policy implications of the impacts of global environmental change on infectious

disease emergence, establishment, and spread. This report examines the observed and potential influence of environmental factors, acting both individually and in synergy, on infectious disease dynamics. The report considers a range of approaches to improve global readiness and capacity for surveillance, detection, and response to emerging microbial threats to plant, animal, and human health in the face of ongoing global environmental change.

The rapidly growing area of photonics plays a critical role in many segments of industry, such as optical communications, information storage, electronic display, and other areas, and is the subject of intense academic and industrial research. The Handbook of Photonics serves as a single-source reference book for this exciting field. The book is divided into three sections: Photonic Materials Photonic Devices and Optics Photonic Systems Each chapter within these sections is written by well-known and respected authors and covers the latest information in many of the important aspects of photonics. The Handbook of Photonics provides a complete reference for scientists, engineers, and students working in this field.

A comprehensive treatment of ultrafast optics This book fills the need for a thorough and detailed account of ultrafast optics. Written by one of the most preeminent researchers in the field, it sheds new light on technology that has already had a revolutionary impact on precision frequency metrology, high-speed electrical testing, biomedical imaging, and in revealing the initial steps in chemical reactions. Ultrafast Optics begins with a summary of ultrashort laser pulses and their practical applications in a range of real-world settings. Next, it reviews important background material, including an introduction to Fourier series and Fourier transforms, and goes

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on to cover: Principles of mode-locking Ultrafast pulse measurement methods Dispersion and dispersion compensation Ultrafast nonlinear optics: second order Ultrafast nonlinear optics: third order Mode-locking: selected advanced topics Manipulation of ultrashort pulses Ultrafast time-resolved spectroscopy Terahertz time-domain electromagnetics Professor Weiner's expertise and cutting-edge research result in a book that is destined to become a seminal text for engineers, researchers, and graduate students alike.

When the Tripods Came

Consumer Culture and the Creation of the Nation

MyStatLab Update

New Views of the Moon

Fundamentals of Optical Waveguides

Aquatic Dicotyledons of North America

In PSYCHOLOGY: THEMES AND VARIATIONS, BRIEFER VERSION, Wayne Weiten continues his proven combination of a scientifically rigorous text with selective pedagogy that makes learning easy for students. Weiten's approach is backed by a straightforward writing style, unparalleled visuals and didactic art program, and in-book review to help users prioritize and retain the core concepts. Weiten surveys psychology's broad range of content with three aims: to illuminate the process of research and its intrinsic relationship to application (themes); to show both the unity and diversity of the subject (variations), and to invite users to the study of psychology by respecting its ability to master its fundamental concepts. Weiten's themes (including empiricism, theoretical diversity, sociohistorical contexts, multifactorial causation, cultural heritage, heredity and

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environment, and subjectivity of experience) and variations provide unifying threads across cultures that help users see the connections among different research areas in psychology.

The dictionary expands on the original idea of Karttunen and Lockhart to map the usage of loanwords in Nahuatl, by using a much larger and diversified corpus of sources, and by including contextual information missing in earlier studies. Most importantly, these sources enrich the colonial corpus with modern data – significantly expanding on our knowledge on language continuity and change.

. . . this Handbook is a good example . . . for those interested in giving a more articulated and sophisticated flavour to their research. Andrea Colli, Business History The authors have taken a lot of pain in putting this Handbook together. As the name indicates, this is an excellent Handbook for researchers in Global Business Review The Handbook of Research on Family Business has collected and synthesized a broad variety of topics by notable researchers who share a common dedication to family business research. This Handbook provides a comprehensive treatment that advances the frontiers of knowledge in family business, provoking valuable thoughts and discussion. The Handbook serves both as an authoritative and comprehensive reference work for researchers investigating family business enterprises. A. Bakr Ibrahim, Concordia University, Montreal, Canada Although family business research is a young discipline it is both necessary and important. For the wellbeing and future development of our society the survival of prosperous and passionate family business entrepreneurs is indispensable. In order to help the families in business to better understand how to succeed with their enterprises we need qualified and updated research. This book is the answer! Hans-Jacob Bonnier Business Press Group, Sweden and 6th Generation Chairman of the Family Business Network International This Handbook is a unique compilation of the most important and the best recent family business research. The field has grown so rapidly that this effort will be a mark

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research to follow. The Handbook of Research on Family Business will be the reference for scholars in family business for many years to come. It will also stimulate new ideas in research. John L. Linstead, IMD, Switzerland and Northwestern University, US The Handbook of Research on Family Business provides a comprehensive first port of call for those wishing to survey progress in the theory and practice of family business research. In response to the extensive growth of family business research of academic inquiry, the principal objective of the Handbook is to provide an authoritative and scholarly overview of current thinking in this multidisciplinary field. The contributors examine recent advances in the study of family business, which has undertaken significant strides in terms of building, empirical rigour, development of sophisticated survey instruments, systematic measurement of family business activity, use of alternative research methodologies and deployment of robust methods of analysis. A wide selection of empirical studies addressing the current family business research agenda are presented, and issues and topics explored include: validation of the protagonist role of family firms play in social-economic spheres; operational and definitional issues surrounding what constitutes a family business; historical development of the field of family business; methodological approaches encompassing micro and macro perspectives; challenges to the orthodox microeconomic view of homo-economicus firms by highlighting the virtues of family influence and social capital. Combining contributions from leading researchers credited with shaping the family business agenda, this Handbook will prove an invaluable reference tool for students, researchers, academics and practitioners involved with the family business arena.

Fundamentals of Optical Waveguides is an essential resource for any researcher, professional or student involved in optics and communications engineering. Any reader interested in designing or actively working with optical devices must have a firm grasp of the principles of lightwave

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propagation. Katsunari Okamoto has presented this difficult technology clearly and concisely with several illustrations and equations. Optical theory encompassed in this reference includes coupled mode theory, nonlinear optical effects, finite element method, beam propagation method, stair-step concatenation method, along with several central theorems and formulas. Since the publication of the well-received first edition of this book, planar lightwave circuits and photonic crystal fibers have matured. With this second edition the advances of these fibers along with other improvements over existing optical technologies are completely detailed. This comprehensive volume enables readers to fully analyze, design and simulate optical atmospheres. Exceptional new chapter on Arrayed-Waveguide Grating (AWG) In-depth discussion of Photonic Crystal Fibers (PCFs) Thorough explanation of Multimode Interference Devices (MMI) Full coverage of polarization Mode Dispersion (PMD)

Karst Management

Microlithography

Psychology

Nanomaterials Chemistry

Identifying and Addressing Sociocultural Concerns

Why did Rome fall? Vicious barbarian invasions during the fifth century resulted in the cataclysmic end of the world's most powerful civilization, and a 'dark age' for its conquered peoples. Or did it? The dominant view of this period today is

that the 'fall of Rome' was a largely peaceful transition to Germanic rule, and the start of a positive cultural transformation. Bryan Ward-Perkins encourages every reader to think again by reclaiming the drama and violence of the last days of the Roman world, and reminding us of the very real horrors of barbarian occupation. Attacking new sources with relish and making use of a range of contemporary archaeological evidence, he looks at both the wider explanations for the disintegration of the Roman world and also the consequences for the lives of everyday Romans, in a world of economic collapse, marauding barbarians, and the rise of a new religious orthodoxy. He also looks at how and why successive generations have understood this period differently, and why the story is still so significant today. Culmination of a survey and review conducted by a U.S. Department of Justice Work Group and COSMOS Corporation. Based on Chinese, Japanese and English-language archives, this text explores the historical ties between nationalism and consumerism in China.

Volume 60 of Reviews in Mineralogy and Geochemistry assesses the current state of knowledge of lunar geoscience, given the data sets provided by missions of the 1990's, and lists remaining key questions as well as new ones for future exploration to address. It documents how a planet or moon other than the world on which we live can be studied and understood in light of integrated suites of specific kinds of information. The Moon is the only body other than Earth for which we have material samples of known geologic context for study. This volume seeks to show how the different kinds of information gained about the Moon relate to each other and also to learn from this experience, thus allowing more efficient planning for the exploration of other worlds.

Biorefineries

Academic E-Books

Hereditary Colorectal Cancer

The Influence of Global Environmental Change on Infectious Disease Dynamics

Probability & Statistics for Engineers & Scientists

Science and Technology, Second Edition

Inspired by the International White Shark Symposium in 2010, **Global Perspectives on the Biology and Life History of the White Shark** incorporates the most important contemporary research findings into a single peer-reviewed book. This beautifully illustrated reference represents a historic change in the context of White Shark (*Carcharodon carcharias*) research. Once considered one of the most poorly understood and difficult sharks to study, this timely book recognizes a new sophisticated focus on the White Shark, raising its status from obscurity to enlightenment. The **Global Perspectives on the Biology and Life History of the White Shark** celebrates the White Shark as the most studied shark in the sea. Within the chapters one can find new insights into a vast range of topics, such as behavior, physiology, migration patterns, habitat preferences, daily activity patterns, molecular genetics, reproductive biology and new research methods. The book also delves into population monitoring and policy options for managers and researchers.

History of Military Mobilization in the United States Army, 1775-1945

**Scientific and Technical Books and Serials in Print
Publishers, Librarians, and Users
Tropical Agroforestry
Handbook of Photonics**