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[Molecular Evolutionary Genetics](#) South-Western Pub

Biomedical Materials provides a comprehensive discussion of contemporary biomaterials research and development. Highlighting important topics associated with Engineering, Medicine and Surgery, this volume reaches a wide scope of professionals, researchers and graduate students involved with biomaterials. A pedagogical writing style and structure provides readers with an understanding of the fundamental concepts necessary to pursue research and industrial work on biomaterials, including characteristics of biomaterials, biological processes, biocompatibility, and applications of biomaterials in implants and medical instruments. Written by leading researchers in the field, this text book takes readers to the forefront of biomedical materials development, providing them with a taste of how the field is changing, while also serving as a useful reference to physicians and engineers.

[Chemical and Biochemical Engineering](#) Univ of California Press

The process whereby information about an object, manmade or natural, can be obtained remotely or without directly encountering it is known as remote sensing. It has great significance in military as well as geographic and commercial endeavors. It generally includes satellites and aircraft based sensors to root out information about objects present in the deep sea, atmosphere, etc. This book presents the complex subject of remote sensing in the most comprehensible and easy to understand language. It includes a detailed explanation of the various concepts and applications of the field. Some of the diverse topics covered in it address the varied branches that fall under this category. This textbook will serve as a valuable source of reference for those interested in remote sensing.

Materials and Surface Engineering Mit Press

Very Good, No Highlights or Markup, all pages are intact.

[Introduction to nuclear engineering](#) Hydrology and Hydraulic Systems

American Art to 1900 presents an astonishing variety of unknown, little-known, or undervalued documents to convey the story of American art through the many voices of its contemporary practitioners, consumers, and commentators. The volume highlights such critically important themes as women artists, African American representation and expression, regional and itinerant artists, Native Americans and the frontier, and more. With its hundreds of explanatory headnotes, this book reveals the documentary riches of American art and its many intersecting histories. -back cover.

[The Science of Roman History](#) Cognella Academic Publishing

This carefully edited book introduces the latest achievements of the scientists of the Russian Academy of Sciences in the field of theory and practice of Smart Electromechanical Systems (SEMS). The book also focuses on methods of designing and modeling of SEMS based on the principles of adaptability, intelligence, biomorphism of parallel kinematics and parallelism in information processing and control computation. The book chapters are dedicated to the following points of interest: - methods of design of SEMS modules and intelligent robots based on them; - synthesis of neural systems of automatic control over SEMS modules; - mathematical and computer modeling of SEMS modules and Cyber Physical Systems based on them; - vitality control and reliability analysis based on logic-and-probabilistic and logic-and-linguistic forecasting; - methods of optimization of SEMS control systems based on mathematical programming methods in ordinal scale and generalized mathematical programming; - information-measuring software of SEMS modules and CPS based on them. This book is intended for students, scientists and engineers specializing in the field of SEMS and robotics, and includes many scientific domains such as kinematics, dynamics, control theory.

Springer Science & Business Media

This volume presents a comprehensive collection of methods that have been instrumental to the current understanding of bacterial persisters. Chapters in the book cover topics ranging from general methods for measuring persister levels in *Escherichia coli* cultures, protocols for the determination of the persister subpopulation in *Candida albicans*, quantitative measurements of Type I and Type II persisters using ScanLag, to in vitro and in vivo models for the study of the intracellular activity of antibiotics. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and cutting-edge, *Bacterial Persistence: Methods and Protocols* brings together the most respected researchers in bacterial persistence whose studies will remain vital to understanding this field for many years to come.

Hydrology and Hydraulic Systems John Wiley & Sons

V. 1: Analysis and bibliography; v.2: Invited papers.

[On-Line Data Bases](#) Springer Science & Business Media

This book facilitates the study of problematic chemicals in such applications as chemical fate modeling, chemical process design, and experimental design. This volume provides comprehensive coverage of modern biochemical engineering, detailing the basic concepts underlying the behavior of bioprocesses as well as advances in bioprocess and biochemical engineering science. It combines contemporary engineering science with relevant biological concepts in a comprehensive introduction to biochemical engineering. This book provides both a rigorous view and a more practical, understandable view of chemical compounds and biochemical engineering and their applications. Every section of the book has been expanded where relevant to take account of significant new discoveries and realizations of the importance of key concepts. Furthermore, emphases are placed on the underlying fundamentals and on acquisition of a broad and comprehensive grasp of the field as a whole.

EGR 100 Springer

This pioneering study argues that the concept of 'empire' belongs at the centre, rather than in the margins, of British art history. Recent scholarship in history, anthropology, literature and post-colonial studies has superseded traditional definitions of empire as a monolithic political and economic project.

Emerging across the humanities is the idea of empire as a complex and contested process, mediated materially and imaginatively by multifarious forms of culture. The twenty essays in *Art and the British Empire* offer compelling methodological solutions to this ambiguity, while engaging in subtle visual analysis of a previously neglected body of work. Authors from Australia, Canada, New Zealand, South Africa, the USA and the UK examine a wide range of visual production, including book illustration, portraiture, monumental sculpture, genre and history painting, visual satire, marine and landscape painting, photography and film. Together these essays propose a major shift in the historiography of British art and a blueprint for further research.

Polymer Science and Engineering Humana Press

Essays presented at the Eleventh Military History Symposium held at the Royal Military College of Canada on March 22-23, 1984.

[Principles of Math 12](#) CRC Press

Liquid metal MHD is within the scope of two series of international conferences. One is the International Congress on "MHD Power Generation", held every four years, which includes technical and economical aspects as well as scientific questions. The other is the Beer-Sheva Seminar on "MHD Flows and Turbulence", held every three years in Israel. In addition to these well established meetings, an IUTAM Symposium was previously organized in Cambridge (UK) in 1982 on "Metallurgical Applications of MHD" by the late Arthur Shercliff. It was focussed on a very specific subject developing rapidly from the middle of the 1970's. The magnetic field was generally AC, including frequencies high enough for the skin-depth to be much smaller than the typical length scale of the liquid pool. And the development of new technologies, or the improvement of existing ones, was the main justification of most of the researches presented and discussed. Only two participants from Eastern countries attended this Symposium. By the middle of the 1980's we felt that on this very same topic ideas had reached much more maturity than in 1982. We also realized that a line of research on MHD flows related to fusion reactors (tokamaks) was developing significantly, with particular emphasis on flows at large interaction parameter.

War and Memory in the Twentieth Century Wiley-Interscience

This book introduces the most recent innovations in natural polymer applications in the food, construction, electronics, biomedical, pharmaceutical, and engineering industries. The authors provide perspectives from their respective range of industries covering classification, extraction, modification, and application of natural polymers from various sources in nature. They discuss the techniques used in analysis of natural polymers in various systems incorporating natural polymers as well as their intrinsic properties.

The Evolution of Operational Art Waveland Press Inc

Rehabilitation Robotics gives an introduction and overview of all areas of rehabilitation robotics, perfect for anyone new to the field. It also summarizes available robot technologies and their application to different pathologies for skilled researchers and clinicians. The editors have been involved in the development and application of robotic devices for neurorehabilitation for more than 15 years. This experience using several commercial devices for robotic rehabilitation has enabled them to develop the know-how and expertise necessary to guide those seeking comprehensive understanding of this topic. Each chapter is written by an expert in the respective field, pulling in perspectives from both engineers and clinicians to present a multi-disciplinary view. The book targets the implementation of efficient robot strategies to facilitate the re-acquisition of motor skills. This technology incorporates the outcomes of behavioral studies on motor learning and its neural correlates into the design, implementation and validation of robot agents that behave as 'optimal' trainers, efficiently exploiting the structure and plasticity of the human sensorimotor systems. In this context, human-robot interaction plays a paramount role, at both the physical and cognitive level, toward achieving a symbiotic interaction where the human body and the robot can benefit from each other's dynamics. Provides a comprehensive review of recent developments in the area of rehabilitation robotics. Includes information on both therapeutic and assistive robots. Focuses on the state-of-the-art and representative advancements in the design, control, analysis, implementation and validation of rehabilitation robotic systems. Global Music (Preliminary Edition) Routledge

How the latest cutting-edge science offers a fuller picture of life in Rome and antiquity. This groundbreaking book provides the first comprehensive look at how the latest advances in the sciences are transforming our understanding of ancient Roman history. Walter Scheidel brings together leading historians, anthropologists, and geneticists at the cutting edge of their fields, who explore novel types of evidence that enable us to reconstruct the realities of life in the Roman world. Contributors discuss climate change and its impact on Roman history, and then cover botanical and animal remains, which cast new light on agricultural and dietary practices. They exploit the rich record of human skeletal material--both bones and teeth--which forms a bio-archive that has preserved vital information about health, nutritional status, diet, disease, working conditions, and migration. Complementing this discussion is an in-depth analysis of trends in human body height, a marker of general well-being. This book also assesses the contribution of genetics to our understanding of the past, demonstrating how ancient DNA is used to track infectious diseases, migration, and the spread of livestock and crops, while the DNA of modern populations helps us reconstruct ancient migrations, especially colonization. Opening a path toward a genuine biohistory of Rome and the wider ancient world, *The Science of Roman History* offers an accessible introduction to the scientific methods being used in this exciting new area of research, as well as an up-to-date survey of recent findings and a tantalizing glimpse of what the future holds.

Green Process Engineering Pergamon

Environmental engineering has a leading role in the elimination of ecological threats, and can deal with a wide range of technical and technological problems due to its interdisciplinary character. It uses the knowledge of the basic sciences biology, chemistry, biochemistry and physics to neutralize pollution in all the elements of the environment.

[Packaging with Plastics](#) Waveland Press

This volume in the *Monographs in Evolutionary Biology* series addresses issues that are part of an emerging area of research loosely called "molecular evolution." Its practitioners include both molecular biologists curious about the evolutionary implications of their data and evolutionary biologists pushing their analyses to the molecular level. The union of these fields of molecular and

organismal biology has been turbulent at times, and, as shall be seen, this dialectic has led to some very serious challenges to long-held notions about the role of natural selection in evolution and the economy of genome organization in eukaryotes. As an inevitable outgrowth of molecular biology, molecular evolution is necessarily a young discipline, but it can already point proudly to two major discoveries. The first, is the molecular clock, a concept that has emerged from the analysis of at least four data sets-amino acid sequences, immunologic data, DNA renaturation studies, and, recently, analyses of DNA sequences. The reality of a strong stochastic component in the evolution of nucleotide sequences can no longer be doubted, although the accuracy of the clock with regard to particular sequences and within particular groups of organisms should be independently measured each time it is used. Nevertheless, molecular clocks will assume increasingly important roles in phylogenetic reconstructions, especially since the fossil record is so fragmentary. The second major discovery of molecular evolution has been the incredible complexity of the eukaryotic genome.

Natural Polymers SAGE Publications

Hydrology and Hydraulic Systems Waveland Press

Leadership in Science and Technology: A Reference Handbook Manchester University Press

The branch of electronics which seeks to apply solid state electronics for the purpose of controlling and converting electrical power is known as power electronics. There are primarily two areas of applications of power electronics such as switches or amplifiers. Ideally, switches should not dissipate any power while they are open or closed. The current in amplifiers varies continuously depending upon the controlled input. Some of the systems which are based on power electronics are AC/DC converters, DC/AC converters, DC/DC converters and AC/AC converters. Inverters are a type of devices which are used to convert DC to AC. This book discusses the fundamentals as well as modern approaches of power electronics. Those in search of information to further their knowledge will be greatly assisted by it. Coherent flow of topics, student-friendly language and extensive use of examples make this book an invaluable source of knowledge.

Smart Electromechanical Systems Trans Tech Publications Ltd

War and Memory in the Twentieth Century explores differing ways in which memories of conflicts are constructed from a multitude of perspectives and representations, including the written and spoken word, cinematic and film images, photography, etc.

[American Art to 1900](#) Springer Nature

The anthology Global Popular Music features readings that examine the commonalities and differences among different popular music traditions in the Americas, Africa, Asia, and Europe. The text explores the ways in which each tradition developed, evolved, eventually disseminated, and how they gained global reach. The book begins with an introduction to global and popular music and answers the all-important question: what is pop? The readings that follow include both material evidence and historical narrative to provide students with greater awareness of how popular music has evolved throughout different cultures. The selections explore various musical traditions, including the blues, samba-reggae, mariachi, afro-pop, bhangra, K-pop, and rap, among other styles of music, all written by renowned and revered musicologists in the field. Compelling and complex in nature, Global Popular Music is an excellent supplementary resource for courses in world music, as well as any course that examines popular music in a global context.