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Hydrology and Hydraulic Systems Springer
Using examples from the last two centuries, this collection of essays discusses the close links between technology and war. In the opening essay, distinguished historian William H. McNeill demonstrates the extent to which military technology has often led to differentiations among people, both within and between societies. The other studies examine various aspects of weapons technology, drawing on the history of the armed forces of Britain, Prussia, and Australia, among others. Some of these illustrate how the adoption of new weaponry frequently depended as much on national pride and party

politics as it did on the purely technical merits of the weapons involved; that financial considerations became increasingly primary in technological developments in British army after World War I; and that decisions made prior to 1939 about the aviation technology to be developed for military purposes largely determined what kind of the RAF was able to fight. The chapter by Dr. G.R. Lindsay, the Chief of the Operational Research and Analysis Establishment at the Department of National Defence Headquarters in Ottawa, makes the case that, with nuclear weapons added to the scene, the impact of technology on international security has never been as great as at present, and that the competition of nations seeking the technological edge in weaponry threatens to destabilize the precarious balance that has existed since 1945.

[Liquid Metal](#)

[Magnetohydrodynamics](#) Thomson South-Western

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.

Advanced Materials Science
CRC Press

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.

Chemical and Biochemical Engineering

Springer Science & Business Media

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.

Natural Polymers Oxford University Press

Broadly defined as the grey area between strategy and tactics, operational art spans the theory and practice of planning and conducting campaigns and major operations aimed at accomplishing strategic and operational objectives in a given theatre of operations. An intermediate link between strategy and tactics has always existed, but a distinct concept that encompasses a systematic and deliberate plan of campaign for major operations is a mere two hundred years old. Based on country specific case-studies, this book describes how the concepts that underpin operational art originated, how they received practical expression in various campaigns, and how they developed over time. The point of departure is the campaigns of 'the God of War', Napoleon Bonaparte.

The book then proceeds with chapters on the evolution of operational art in Prussia / Germany, the Soviet Union / Russia, the United Kingdom, United States, Israel, and China. The final chapter deals with the future of operational art in irregular warfare. Theory is critical to refining and improving existing methods of applying operational warfare, and its importance cannot be overstated; however, to be useful, theory and its accompanying vocabulary must be combined with a proper examination of historical trends and practical experience. The present volume attempts to achieve that combination. This book is a project of the Oxford Leverhulme Programme on the Changing Character of War.

Foreign Policies of the Great Powers Berg Publishers

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. Never theless, 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.

Materials and Surface Engineering 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. EGR 100 MIT Press
In the past decade, contemporary African art has been featured in major exhibitions in museums, galleries, international biennials, and other forums. African cinema has established itself on the stage of world cinema, culminating in the Ouagadougou Film Festival. While African art and visual culture have become an integral part of the art history and cultural studies curricula in universities worldwide, critical readings and interpretations have remained difficult to obtain. This pioneering anthology collects twenty key essays in which major critical thinkers, scholars, and artists explore contemporary African visual culture, locating it within current cultural debates and within the context of the continent's history. The sections of the book are Theory and Cultural Transaction, History, Location and Practice, and Negotiated Identities. Copublished with the Institute of International Visual Arts (inIVA), London Men, Machines, and War Academic 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.

Dynamics of Two-phase Flows Elsevier

Tissue engineering combines biological science with engineering applications. This book consists of contributions made by international experts on complex topics such as types of cells, assembly methods, tissue culture, bioreactors, etc. Also included in this book are detailed elaborations of the applications of cellular and tissue engineering like tissue replacement, repair and regeneration, etc. This book attempts to assist

those with a goal of delving into the field of tissue engineering.

The Evolution of Operational Art Humana 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 **Business Cycles and Forecasting** CRC Press Proceedings of the Japan-US seminar on Two-Phase Flow Dynamics held in Japan, 1988.

Papers are grouped into five categories: fundamental equations and closure laws; flow regime modeling and dynamics; phase separation and distribution phenomena; wave and shock phenomena and critical flows; and forced convective and post-dryout heat transfer. Four pages of color plates. No index.

Annotation c. by Book News, Inc., Portland, Or.

Introduction to Nuclear Engineering Springer

This book, the second in the Woodhead Publishing Reviews: Mechanical Engineering Series, is a collection of high quality articles (full research articles, review articles, and cases studies) with a special emphasis on research and development materials and surface engineering and its applications. Surface engineering techniques are being used in the automotive, aircraft, aerospace, missile, electronic, biomedical, textile, petrochemical, chemical, moulds and dies, machine tools, and construction industries. Materials science is an interdisciplinary field involving the micro and nano-structure, processing, properties of materials and its applications to various areas of engineering, technology and industry. This book addresses all

types of materials, including metals and alloys, polymers, ceramics and glasses, composites, nano-materials, biomaterials, etc. The relationship between micro and nano-structure, processing, properties of materials is discussed.

Surface engineering is a truly interdisciplinary topic in materials science that deals with the surface of solid matter. Written by a highly knowledgeable and well-respected experts in the field. The diversity of the subjects of this book present a range of views based on international expertise

Environmental Engineering III Springer

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. Principles of Math 12 Addison Wesley Publishing Company 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.

Cellular and Tissue Engineering: Concepts and Applications Begell House Publishers Inc.

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.

War and Memory in the

Twentieth Century

The third edition of this popular book is updated to include a completely revised discussion of reactor technology, an improved discussion of the reactor physics, and a more detailed discussion of basic nuclear physics and models. -- Introduces the basics of the shell model of the nucleus and a beginning discussion of quantum mechanics. -- Discusses both U.S. and non-U.S. reactor designs, as well as advanced reactors. -- Provides for a more detailed understanding of both reactor statics and kinetics. -- Includes updated information on reactor accidents and safety.

Introduction to Remote Sensing

Selected peer-reviewed extended articles based on abstracts presented at the 5th International Conference on Advanced Materials Science (ICoAMS 2022)
Aggregated Book

PHYSICAL HYDROLOGY

Smart Electromechanical Systems