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B8L92P - NEAL MOON

This is the first study to examine in detail ritual objects known as 'Lamak', a fascinating and unique form of ephemeral material culture which is a prominent feature of Balinese creativity.

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

Shape-memory polymers (SMP) are a unique branch of the smart materials family which are capable of changing shape on-demand upon exposure to external stimulus. The discovery of SMP made a significant breakthrough in the developments of novel smart materials for a variety of engineering applications, superseded the traditional materials, and also influenced the current methods of product designing. This book provides the latest advanced information of on-going research domains of SMP. This will certainly enlighten the reader to the achievements and tremendous potentials of SMP. The basic fundamentals of SMP, including shape-memory mechanisms and mechanics are described. This will aid reader to become more familiar with SMP and the basic concepts, thus guiding them in undergoing independent research in the SMP field. The book also provides the reader with associated challenges and existing application problems of SMP. This could assist the reader to focus more on these issues and further exploit their knowledge to look for innovative solutions. Future outlooks of SMP research are discussed as well. This book should prove to be extremely useful for academics, R&D managers, researcher scientists, engineers, and all others related to the SMP research.

With countless electric motors being used in daily life, in everything from transportation and medical treatment to military operation and communication, unexpected failures can lead to the loss of valuable human life or a costly standstill in industry. To prevent this, it is important to precisely detect or continuously monitor the working condition of a motor. *Electric Machines: Modeling, Condition Monitoring, and Fault Diagnosis* reviews diagnosis technologies and provides an application guide for readers who want to research, develop, and implement a more effective fault diagnosis and condition monitoring scheme—thus improving safety and reliability in electric motor operation. It also supplies a solid foundation in the fundamentals of fault cause and effect. Combines Theoretical Analysis and Practical Application Written by experts in electrical engineering, the book approaches the fault diagnosis of electrical motors through the process of theoretical analysis and practical application. It begins by explaining how to analyze the fundamentals of machine failure using the winding functions method, the magnetic equivalent circuit method, and finite element analysis. It then examines how to implement fault diagnosis using techniques such as the motor current signature analysis (MCSA) method, frequency domain method, model-based techniques, and a pattern recognition scheme. Emphasizing the MCSA implementation method, the authors discuss robust signal processing techniques and the implementation of reference-frame-theory-based fault diagnosis for hybrid vehicles. *Fault Modeling, Diagnosis, and Implementation in One Volume* Based on years of research and development at the Electrical Machines & Power Electronics (EMPE) Laboratory at Texas A&M University, this book describes practical analysis and implementation strategies that readers can use in their work. It brings together, in one volume, the fundamentals of motor fault conditions, advanced fault modeling theory, fault diagnosis techniques, and low-cost DSP-based fault diagnosis implementation strategies.

This volume provides a review of the past 10 to 15 years of intensive research, development and demonstrations that have been on the forefront of developing bioaugmentation into a viable remedial technology. This volume provides both a primer on the basic microbial processes involved in bioaugmentation, as well as a thorough summary of the methodology for implementing the technology. This reference volume will serve as a valuable resource for environmental remediation professionals who seek to understand, evaluate, and implement bioaugmentation.

"Why is it really that architects wear black?" was a question put to Cordula Rau by an automotive industry manager during an architectural competition. Even though she herself is an architect, and wears black, she did not have an answer on the spot. So she decided to ask other architects, as well as artists and designers. She has been collecting their handwritten replies in a notebook since 2001. In 2008, this collection of autographs appeared as a small publication – obviously bound in black. For the purpose of the new edition, this legendary collection was expanded by new notable, amusing, pragmatic, and quirky reasons: "Please read – and don't ask me why architects wear black!". (Cordula Rau)

Computationally-intensive tools play an increasingly important role in financial decisions. Many financial problems—ranging from asset allocation to risk management and from option pricing to model calibration—can be efficiently handled using modern computational techniques. *Numerical Methods and Optimization in Finance* presents such computational techniques, with an emphasis on simulation and optimization, particularly so-called heuristics. This book treats quantitative analysis as an essentially computational discipline in which applications are put into software form and tested

empirically. This revised edition includes two new chapters, a self-contained tutorial on implementing and using heuristics, and an explanation of software used for testing portfolio-selection models. Postgraduate students, researchers in programs on quantitative and computational finance, and practitioners in banks and other financial companies can benefit from this second edition of *Numerical Methods and Optimization in Finance*. Introduces numerical methods to readers with economics backgrounds Emphasizes core simulation and optimization problems Includes MATLAB and R code for all applications, with sample code in the text and freely available for download Vols. for 1964- have guides and journal lists.

The previously untold story of the Zenith Trans-Oceanic, the world's most romantic and expensive series of portable radios. Long a companion of kings, presidents, transoceanic yachtsmen and world explorers, the Trans-Oceanic was also carried into battle by American troops in three wars. Its great popularity in spite of a very high price can be laid at the feet of several generations of armchair travelers who used the shortwave capabilities of the Trans-Oceanic as a window on the world. With access to the Zenith corporate archives and their long experience as radio enthusiasts and writers for both the popular and scholarly press, Professors Bryant and Cones present the engrossing stories of the development and use of the Trans-Oceanic throughout its forty year life. They present a wealth of never-before published photographs, documents and information concerning these fascinating radios, their collection, preservation and restoration.

This volume presents the latest research related to the current water situation, as well as its significance for the peaceful coexistence of the neighbouring countries. The book focuses on crucial topics: water resources, water protection, water management and water as a source of conflict. Topics such as sewage disposal and soil protection, as well as the transfer of environmental technology are also discussed.

The reconquest of the Philippine archipelago (exclusive of Leyte), with detailed accounts of Sixth Army and Eighth Army operations on Luzon, as well as of the Eighth Army's reoccupation of the southern Philippines.

This is the second of two volumes that review, for the first time, all major aspects of photorefractive effects and their applications. Photorefractive effects in electro-optic crystals are based on optically induced space-charge fields which ultimately alter the refractive indices by the electro-optic Pockels effect. The fundamental phenomena leading to photoinduced changes of refractive index, the materials requirements and experimental results on a variety of photorefractive materials are discussed and the most recent theoretical models describing these phenomena are presented. Interest in photorefractive materials has increased in recent years mainly because of their potential for nonlinear optical devices and for optical signals processing applications. Most of these applications are reviewed in this volume. The contributions to the two volumes are written by experts on each topic and are intended for scientists and engineers active in the field and for researchers and graduate students entering the field. Over 300 references to original papers on photorefractive and associated phenomena are cited. Volume 1 appeared as Volume 61 of *Topics in Applied Physics*.

This manual provides guidance for MOS 11C soldiers and their trainers on the employment of the 60-mm (M224 and M19) mortars, 81-mm (M252 and M29A1) mortars, 4.2-inch (M30) mortar, and 120-mm (M120) mortars. It discusses the practical applications of ballistics and a system combining the principals, techniques, and procedures essential to the delivery of timely and accurate mortar fire. (See FM 23-90 for information on mechanical training, crew drills, and the characteristics, components, and technical data of each mortar.)

A landmark collection of original essays that explore the dynamics of entrepreneurship in the U.S. and around the world—from the "mindset" of the entrepreneur to the challenges of establishing and sustaining new ventures to the institutions and technologies that support new business creation The book presents the latest power conversion and control technology in modern wind energy systems. It has nine chapters, covering technology overview and market survey, electric generators and modeling, power converters and modulation techniques, wind turbine characteristics and configurations, and control schemes for fixed- and variable-speed wind energy systems. The book also provides in-depth steady-state and dynamic analysis of squirrel cage induction generator, doubly fed induction generator, and synchronous generator based wind energy systems. To illustrate the key concepts and help the reader tackle real-world issues, the book contains more than 30 case studies and 100 solved problems in addition to simulations and experiments. The book serves as a comprehensive reference for academic researchers and practicing engineers. It can also be used as a textbook for graduate students and final year undergraduate students.

This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part

of keeping this knowledge alive and relevant.

The NATO Advanced Study Institute on "Functional Gradient Materials and Surface Layers Prepared by Fine Particles Technology" was held in Kiev (Ukraine) on June 18- 28, 2000 where more than 90 participants, ranging from Ph.D. students to experienced senior scientists, met and exchanged ideas. This meeting was aimed at stimulating the research work across traditional disciplinary lines by bringing together scientists from diverse research areas related to functional gradient materials and surface layers. It also intended to give opportunities for initiating collaborative works between scientists from NATO and Partner countries and to trigger fruitful and exciting discussions between experienced and young researchers. In this respect, this NATO-ASI has been quite successful. The term of functional gradient materials which originates from Japan in the 1980's describes a class of engineering materials with spatially inhomogeneous microstructures and properties (MRS Bulletin, 1995,20, N°1). These materials can be successfully utilized in various applications like electronic devices, optical films, anti wear and anti-corrosion coatings, thermal barrier coatings, biomaterials, to name only a few. Although these functional gradient materials are not fundamentally new, the use of nanoparticles in their fabrication and in surface layers as well has greatly improved their performances to meet challenging requirements for industrial applications.

New corrected printing of a well-established text on logic at the introductory level.

Where do you begin to look for a recent, authoritative article on the diagnosis or management of a particular malignancy? The few general oncology textbooks are generally out of date. Single papers in specialized journals are informative but seldom comprehensive; these are more often preliminary reports on a very limited number of patients. Certain general journals frequently publish good in-depth reviews of cancer topics, and published symposium lectures are often the best overviews available. Unfortunately, these reviews and supplements appear sporadically, and the reader can never be sure when a topic of special interest will be covered. Cancer Treatment and Research is a series of authoritative volumes which aim to meet this need. It is an attempt to establish a critical mass of oncology literature covering virtually all oncology topics, revised frequently to keep the coverage up to date, easily available on a single library shelf or by a single personal subscription. We have approached the problem in the following fashion. First, by dividing the oncology literature into specific subdivisions such as lung cancer, genitourinary cancer, pediatric oncology, etc. Second, by asking eminent authorities in each of these areas to edit a volume on the specific topic on an annual or biannual basis. Each topic and tumor type is covered in a volume appearing frequently and predictably, discussing current diagnosis, staging, markers, all forms of treatment modalities, basic biology, and more.

Recent advances in genomic studies have stimulated synergetic research and development in many cross-disciplinary areas. Processing the vast genomic data, especially the recent large-scale microarray gene expression data, to reveal the complex biological functionality, represents enormous challenges to signal processing and statistics. This perspective naturally leads to a new field, genomic signal processing (GSP), which studies the processing of genomic signals by integrating the theory of signal processing and statistics. Written by an international, interdisciplinary team of authors, this invaluable edited volume is accessible to students just entering this emergent field, and to researchers, both in academia and in industry, in the fields of molecular biology, engineering, statistics, and signal processing. The book provides tutorial-level overviews and addresses the specific needs of genomic signal processing students and researchers as a reference book. The book aims to address current genomic challenges by exploiting potential synergies between genomics, signal processing, and statistics, with special emphasis on signal processing and statistical tools for structural and functional understanding of genomic data. The first part of this book provides a brief history of genomic research and a background introduction from both biological and signal-processing/statistical perspectives, so that readers can easily follow the material presented in the rest of the book. In what follows, overviews of state-of-the-art techniques are provided. We start with a chapter on sequence analysis, and follow with chapters on feature selection, classification, and clustering of microarray data. We then discuss the modeling, analysis, and simulation of biological regulatory networks, especially gene regulatory networks based on Boolean and Bayesian approaches. Visualization and compression of gene data, and supercomputer im-

plementation of genomic signal processing systems are also treated. Finally, we discuss systems biology and medical applications of genomic research as well as the future trends in genomic signal processing and statistics research.

A comprehensive study of secession from an international law perspective.

This book provides a comprehensive introduction to the history and development of the Latin New Testament and a user's guide to the resources available for research and further study. The first five chapters offer a new historical synthesis, bringing together evidence from Christian authors and biblical manuscripts from earliest times to the late Middle Ages. Each witness is considered in its chronological and geographical context, to build up the bigger picture of the transmission of the text. There are chapters introducing features of Latin biblical manuscripts and examining how the Latin tradition may serve as a witness for the Greek New Testament. In addition, each book of the New Testament is considered in turn, with details of the principal witnesses and features of particular textual interest. The three main scholarly editions of the Latin New Testament (the Vetus Latina edition, the Stuttgart Vulgate, and the Oxford Vulgate) are described in detail. Information is also given about other editions and resources, enabling researchers to understand the significance of different approaches and become aware of the latest developments. The Catalogue of Manuscripts gives full details of each manuscript used in the major editions, with bibliographical references and links to sets of digital images. The Appendices include concordances for the different ways in which manuscripts are cited in scholarly literature. An extensive reference bibliography of publications on the Latin New Testament is also supplied.

The manual describes the general strategy for the U.S. Marines but it is beneficial for not only every Marine to read but concepts on leadership can be gathered to lead a business to a family. If you want to see what make Marines so effective this book is a good place to start.

The Antinomies of Realism is a history of the nineteenth-century realist novel and its legacy told without a glimmer of nostalgia for artistic achievements that the movement of history makes it impossible to recreate. The works of Zola, Tolstoy, Pérez Galdós, and George Eliot are in the most profound sense inimitable, yet continue to dominate the novel form to this day. Novels to emerge since struggle to reconcile the social conditions of their own creation with the history of this mode of writing: the so-called modernist novel is one attempted solution to this conflict, as is the ever-more impoverished variety of commercial narratives - what today's book reviewers dub "serious novels," which are an attempt at the impossible endeavor to roll back the past. Fredric Jameson examines the most influential theories of artistic and literary realism, approaching the subject himself in terms of the social and historical preconditions for realism's emergence. The realist novel combined an attention to the body and its states of feeling with a focus on the quest for individual realization within the confines of history. In contemporary writing, other forms of representation - for which the term "postmodern" is too glib - have become visible: for example, in the historical fiction of Hilary Mantel or the stylistic plurality of David Mitchell's novels. Contemporary fiction is shown to be conducting startling experiments in the representation of new realities of a global social totality, modern technological warfare, and historical developments that, although they saturate every corner of our lives, only become apparent on rare occasions and by way of the strangest formal and artistic devices. In a coda, Jameson explains how "realistic" narratives survived the end of classical realism. In effect, he provides an argument for the serious study of popular fiction and mass culture that transcends lazy journalism and the easy platitudes of recent cultural studies.

Military demolitions are the destruction by fire, water, explosive, and mechanical means of areas, structures, facilities, or materials to accomplish a military objective. The U.S. Army Explosives and Demolitions Handbook is a guide to the use of explosives in the destruction of military obstacles from the Department of the U.S. Army. This guide includes information on types, characteristics, and uses of explosives and auxiliary equipment; preparation, placement, and firing of charges; safety precautions; handling, transportation, and storage of explosives; deliberate and hasty demolition methods; and much more. Applicable to nuclear and nonnuclear warfare, and having offensive and defensive uses, the knowledge one will come away with from reading this handbook is invaluable.