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TESSA CALLAHAN

Gulf War Air Power Survey Springer Science & Business Media
Water and Wastewater companies operating all around the world have faced rising asset management and replacement costs, often to levels that are financially unsustainable. Management of investment needs, while meeting regulatory and other goals, has required: A better understanding of what customers demand from the services they pay for, and the extent to which they are willing to pay for improvements or be compensated for a reduction in performance Development of models to predict asset failure and to identify and concentrate investment on critical assets Improved management systems Improved accounting for costs and benefits and their incorporation within an appropriate cost-benefit framework Incorporation of risk management techniques Utilisation of advanced maintenance techniques including new rehabilitation failure detection technologies Enhancements in pipeline materials, technologies and laying techniques. These papers developed from LESAM 2007 for inclusion in Strategic Asset Management of Water Supply and Wastewater Infrastructures are focused on the techniques, technologies and management approaches aiming at optimising the investment in infrastructure while achieving demanded customer service standards, and they provide an opportunity to gain access to the latest discussion and developments at the leading-edge in this field. This book will be essential reading for utility operators and managers, regulators and consultants.

Advances in Molecular Breeding Toward Drought and Salt Tolerant Crops American Water Works Association

This is a book on one of the most fascinating and controversial areas in contemporary science of carbon, chemistry, and materials science. It concisely summarizes the state of the art in topical and critical reviews written by professionals in this and related fields.

Strategic Asset Management of Water Supply and Wastewater Infrastructures Cambridge University Press
With near-comprehensive coverage of new advances in crop breeding for drought and salinity stress tolerance, this timely work seeks to integrate the most recent findings about key biological determinants of plant stress tolerance with modern crop improvement strategies. This volume is unique because it provides exceptionally wide coverage of current knowledge and expertise being applied in drought and salt tolerance research.
The Economics of Exchange Rates Springer Science & Business Media

This comprehensive manual of water supply practices explains the design, selection, specification, installation, transportation, and pressure testing of concrete pressure pipes in potable water service.

Improving Concrete Quality Springer Science & Business Media

Early Main Group Metal Catalysis gives a comprehensive overview of catalytic reactions in the presence of group 1 and group 2 metals. Chapters are ordered to reaction type, contain educational elements and deal with concepts illustrated by examples that cover the main developments. After a short introduction on polar organometallic chemistry and synthesis of early main group metal complexes, a variety of catalytic reactions are described, e.g. polymerization of alkenes, hydroamination and phosphination reactions, hydrosilylation, hydroboration and hydrogenation catalysis, as well as enantioselective and Lewis-acid catalysis. The book addresses organic chemists and researchers in industry interested in the state-of-the-art and new possibilities of early main group metal catalysis as well as newcomers to the field. Written by a team of leaders in the field, it is a very welcome addition to the area of main group metal chemistry, and to the field of catalysis.

Handbook of Olive Oil: Analysis and Properties Routledge
This book presents an introduction to the principles of the fast Fourier transform. This book covers FFTs, frequency domain filtering, and applications to video and audio signal processing. As fields like communications, speech and image processing, and related areas are rapidly developing, the FFT as one of essential parts in digital signal processing has been widely used. Thus there is a pressing need from instructors and students for a book dealing with the latest FFT topics. This book provides thorough and detailed explanation of important or up-to-date FFTs. It also has adopted modern approaches like MATLAB examples and projects for better understanding of diverse FFTs.

Space Power Interests Springer Science & Business Media
For undergraduate and graduate courses in advanced accounting. An in-depth guide to accounting that reflects the most up-to-date business developments. This comprehensive textbook addresses practical financial reporting problems while reflecting recent business developments and changes in accounting standards. This edition has been rewritten to align with the Financial Accounting Standards Board Accounting Standards Codification.

Elementary Linear Algebra CRC Press
As of today, Evolutionary Computing and Fuzzy Set Computing are two mature, well-developed, and highly advanced technologies of information processing. Each of them has its own clearly defined research agenda, specific goals to be achieved, and a well-set algorithmic environment. Concisely speaking, Evolutionary Computing (EC) is aimed at a coherent population-oriented methodology of structural and parametric optimization of a diversity of systems. In addition to this broad spectrum of such optimization applications, this paradigm offers an important ability to cope with realistic goals and design objectives reflected in the form of relevant fitness functions. The GA search (which is often regarded as a dominant domain among other techniques of EC such as evolutionary strategies, genetic programming or evolutionary programming) delivers a great deal of efficiency helping navigate through large search spaces. The main thrust of fuzzy sets is in representing and managing nonnumeric (linguistic) information. The key notion (whose conceptual as well as algorithmic importance has started to increase in the recent years) is that of information granularity. It somewhat concurs with the principle of incompatibility coined by L. A. Zadeh. Fuzzy sets form a vehicle helpful in expressing a granular character of information to be captured. Once quantified via fuzzy sets or fuzzy relations, the domain knowledge could be used efficiently very often reducing a heavy computation burden when analyzing and optimizing complex systems.

Challenge and Response CreateSpace
This is a book about strategy and war fighting. It contains 11 essays which examine topics such as military operations against a well-armed rogue state, the potential of parallel warfare strategy for different kinds of states, the revolutionary potential of information warfare, the lethal possibilities of biological warfare and the elements of an ongoing revolution in military affairs. The purpose of the book is to focus attention on the operational problems, enemy strategies and threat that will confront U.S. national security decision makers in the twenty-first century.
Fuzzy Evolutionary Computation Academic Press
Manual of integrated material and construction practices for concrete pavements.

Modernizing Crime Statistics Springer Science & Business Media

To derive statistics about crime in order to estimate its levels and trends, assess its costs to and impacts on society, and inform law enforcement approaches to prevent it, a conceptual framework for defining and thinking about crime is virtually a prerequisite. Developing and maintaining such a framework is no easy task, because the mechanics of crime are ever evolving and shifting: tied to shifts and development in technology, society, and legislation. Interest in understanding crime surged in the 1920s, which proved to be a pivotal decade for the collection of nationwide crime statistics. Now established as a permanent agency, the Census Bureau commissioned the drafting of a manual for preparing crime statistics intended for use by the police, corrections departments, and courts alike. The new manual sought to solve a perennial problem by suggesting a standard taxonomy of crime. Shortly after the Census Bureau issued its manual, the International Association of Chiefs of Police in convention adopted a resolution to create a Committee on Uniform Crime Records to begin the process of describing what a national system of data on crimes known to the police might look like. The key distinction between the rigorous classification proposed in this report and the "classifications" that have come before in U.S. crime statistics is that it is intended to partition the entirety of behaviors that could be considered criminal offenses into mutually exclusive categories. Modernizing Crime Statistics: Report 1: Defining and Classifying Crime assesses and makes recommendations for the development of a modern set of crime measures in the United States and the best means for obtaining them. This first report develops a new classification of crime by weighing various perspectives on how crime should be defined and organized with the needs and demands of the full array of crime data users and stakeholders.

Battlefield of the Future - 21st Century Warfare Issues

James Clarke & Co.

The ever-growing demand for commercial activities at sea has meant that ships are rapidly developing and that the rules governing their construction and operation are changing. Practical Ship Design records these changes, their outcomes and the reasoning behind them. It deals with every aspect of ship design and handles a wide range of both merchant ships and naval ships with authority. It provides coverage of cargo ships and passenger ships, tugs, dredgers and other service craft. It also includes concept design, detail design, structural design, hydrodynamics design, the effect of regulations, the preparation of specifications and matters of costs and economics. Drawing on the author's extensive practical experience, Practical Ship Design is likely to interest everybody involved in the design, construction, repair and operation of ships. Students and the most experienced professionals will all benefit from the book's vast store of design data and its conclusions and recommendations.

International Financial Operations KIT Scientific Publishing
For courses in Civil Engineering Materials, Construction Materials, and Construction Methods and Materials offered in Civil, Environmental, or Construction engineering departments. This introduction gives students a basic understanding of the material selection process and the behavior of materials - a fundamental requirement for all civil and construction engineers performing design, construction, and maintenance. The authors cover the various materials used by civil and construction engineers in one useful reference, limiting the vast amount of information available to the introductory level, concentrating on current practices, and extracting information that is relevant to the general education of civil and construction engineers. A large number of experiments, figures, sample problems, test methods, and homework problems gives students opportunity for practice and review.

Hydrogeology and Simulation of Ground-water Flow in the Thick Regolith-fractured Crystalline Rock Aquifer System of Indian Creek Basin, North Carolina MDPI

In the last few decades exchange rate economics has seen a number of developments, with substantial contributions to both the theory and empirics of exchange rate determination. Important developments in econometrics and the increasingly large availability of high-quality data have also been responsible for stimulating the large amount of empirical work on exchange rates in this period. Nonetheless, while our understanding of exchange rates has significantly improved, a number of challenges and open questions remain in the exchange rate debate, enhanced by events including the launch of the Euro and the large number of recent currency crises. This volume provides a selective coverage of the literature on exchange rates, focusing on developments from within the last fifteen years. Clear explanations of theories are offered, alongside an appraisal of the literature and suggestions for further research and analysis.

Aggregatibacter actinomycetemcomitans—Gram-Negative Bacterial Pathogen DIANE Publishing
Written by a recognized authority in the field of identification and control, this book draws together into a single volume the important aspects of system identification AND physical modelling. KEY TOPICS: Explores techniques used to construct mathematical models of systems based on knowledge from physics, chemistry, biology, etc. (e.g., techniques with so called bond-graphs, as well those which use computer algebra for the modeling work). Explains system identification techniques used to infer knowledge about the behavior of dynamic systems based on observations of the various input and output signals that are available for measurement. Shows how both types of techniques need to be applied in any given practical modeling situation. Considers applications, primarily simulation. MARKET: For practicing engineers who are faced with problems of modeling.

Marine Corps Individual Records Administration Manual (IRAM). IGI Global

In this collection of essays, the contributors examine the implications of the formal dissolution of the Soviet Union and the Warsaw Pact on planning for future military threats. They attempt to identify the nature and source of the most likely future threats to global security. Part I contains a broad review of the major determinants of international change. Part II analyzes specific situations, the changing nature of warfare, and potential responses to emerging challenges.

Practical Ship Design IWA Publishing
Examines a broad range of research and case studies that throws light on potential, social and human factors which determine the success of information technology.

Susan Sontag Springer Science & Business Media

'In summary, the book is valuable as a textbook both at the advanced undergraduate level and at the graduate level. It is also very useful for the economist who wants to be brought up-to-date on theoretical and empirical research on exchange rate behaviour.' "Journal of International Economics"
Carbyne and Carbynoid Structures Routledge

This new olive oil handbook provides a wealth of detail about the analysis and properties of olives and their oil. It covers technological aspects and biochemistry, a description of detailed techniques, and an analysis of olive oil from the standpoint of general methodology.
Business Process Change Routledge
This is the world's first edited book on independent component

analysis (ICA)-based blind source separation (BSS) of convolutive mixtures of speech. This book brings together a small number of leading researchers to provide tutorial-like and in-depth treatment on major ICA-based BSS topics, with the objective of becoming the definitive source for current, comprehensive, authoritative, and yet accessible treatment.