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The Climate Change 2007 volumes of the Fourth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) provide the most comprehensive and balanced assessment of climate change available. This IPCC Working Group II volume provides a completely up-to-date scientific assessment of the impacts of climate change, the vulnerability of natural and human environments, and the potential for response through adaptation. Written by the world's leading experts, the IPCC volumes will again prove to be invaluable for researchers, students, and policymakers, and will form the standard reference works for policy decisions for government and industry worldwide.

This book describes how surface tension effects can be used by engineers to provide mechanical functions in miniaturized products (1 mm). Even if precursors of this field such as Jurin or Laplace already date back to the 18th century, describing surface tension effects from a mechanical perspective is very recent. The originality of this book is to consider the effects of capillary bridges on solids, including forces and torques exerted both statically and dynamically by the liquid along the 6 degrees-of-freedom. It provides a comprehensive

approach to various applications, such as capillary adhesion (axial force), centering force in packaging and micro-assembly (lateral force) and recent developments such as a capillary motor (torque).

This basic source for identification of U.S. manufacturers is arranged by product in a large multi-volume set. Includes: Products & services, Company profiles and Catalog file.

What exactly is smart grid? Why is it receiving so much attention? What are utilities, vendors, and regulators doing about it? Answering these questions and more, *Smart Grids: Infrastructure, Technology, and Solutions* gives readers a clearer understanding of the drivers and infrastructure of one of the most talked-about topics in the electric utility market—smart grid. This book brings together the knowledge and views of a vast array of experts and leaders in their respective fields.

Key Features

- Describes the impetus for change in the electric utility industry
- Discusses the business drivers, benefits, and market outlook of the smart grid initiative
- Examines the technical framework of enabling technologies and smart solutions
- Identifies the role of technology developments and coordinated standards in smart grid, including various initiatives and organizations helping to drive the smart grid effort
- Presents both current technologies and forward-looking ideas on new technologies
- Discusses barriers

and critical factors for a successful smart grid from a utility, regulatory, and consumer perspective Summarizes recent smart grid initiatives around the world Discusses the outlook of the drivers and technologies for the next-generation smart grid Smart grid is defined not in terms of what it is, but what it achieves and the benefits it brings to the utility, consumer, society, and environment. Exploring the current situation and future challenges, the book provides a global perspective on how the smart grid integrates twenty-first-century technology with the twentieth-century power grid. CRC Press Authors Speak Stuart Borlase speaks about his book. Watch the video

Sustainable Maritime Transportation and Exploitation of Sea Resources covers the most updated aspects of maritime transports and of coastal and sea resources exploitation, with a focus on (but not limited to) the Mediterranean area. Vessels for transportation are analysed from the viewpoint of ship design in terms of hydrodynamic, structural and plant optimisation, as well as from the perspective of construction, maintenance, operation and logistics. The exploitation of marine and coastal resources is covered in terms of fishing, aquaculture and renewable energy production as well as of subsea resources extraction. The characterisation of the marine environment is seen under the twofold perspective of providing reference loads and conditions for the design of

means for the resources exploitation, but also of setting limits to the design in order to preserve the natural ambient and minimise the impact of anthropogenic activities related to both transportation and exploitation. Efficiency, reliability, safety and sustainability of sea- and Mediterranean-related human activities are the focus throughout the book. Sustainable Maritime Transportation and Exploitation of Sea Resources will be of interest to technical operators in the various areas involved (shipbuilding and ship-owner companies, research organisations, universities, certifying bodies), but will also serve as an updated reference work for government agencies and other institutional and educational bodies.

The objective of this book is to make analytical methods available to students of ecology. The text deals with concepts of energy exchange, gas exchange, and chemical kinetics involving the interactions of plants and animals with their environments. The first four chapters are designed to show the applications of biophysical ecology in a preliminary, simplified manner. Chapters 5-10, treating the topics of radiation, convection, conduction, and evaporation, are concerned with the physical environment. The spectral properties of radiation and matter are thoroughly described, as well as the geometrical, instantaneous, daily, and annual amounts of both shortwave and longwave radiation. Later chapters give the more elaborate analytical methods necessary for the study of photosynthesis in plants and energy budgets in animals. The final chapter describes the temperature responses of plants and animals. The discipline of

biophysical ecology is rapidly growing, and some important topics and references are not included due to limitations of space, cost, and time. The methodology of some aspects of ecology is illustrated by the subject matter of this book. It is hoped that future students of the subject will carry it far beyond its present status. Ideas for advancing the subject matter of biophysical ecology exceed individual capacities for effort, and even today, many investigators in ecology are studying subjects for which they are inadequately prepared. The potential of modern science, in the minds and hands of skilled investigators, to of the interactions of organisms with their advance our understanding environment is enormous.

This book constitutes the thoroughly refereed post-conference proceedings of the 7th International Conference on Fundamentals of Software Engineering, FSEN 2017, held in Tehran, Iran, in April 2017. The 16 full papers presented in this volume were carefully reviewed and selected from 49 submissions. The topics of interest in FSEN span over all aspects of formal methods, especially those related to advancing the application of formal methods in software industry and promoting their integration with practical engineering techniques.

This book explores comorbidity in patients with rheumatic diseases and details both care and treatment options in standard clinical practice. Patients with rheumatic diseases are clinically complex, and the interplay of their disease activity with associated conditions may lead to increased morbidity and mortality. Recently there have been major advances in the management of rheumatic diseases, however, without addressing the potential comorbid conditions, including cardiovascular disease; pulmonary disease; and depression; outcomes remain poor. ??? With its 19 chapters, covering the management of major rheumatic diseases (e.g. rheumatoid arthritis, systemic lupus erythematosus , and osteoarthritis), potential

comorbidities and treatment recommendations, as well as possible interactions between conditions; this book addresses the gap between textbook medicine and day to day patients' care. Authors also discuss the new hot issue of the comorbidity index, comparing the standard tools to the recently developed indices and how they can assist the rheumatologists in determining disease burden, prognosis, and comorbidity probability. This book is an ideal clinical guide and reference that enables rheumatologists, internal medicine physicians, and residents to address the full clinical expression of these rheumatic diseases with views towards prevention or early management of comorbid conditions.

In recent years significant advances have been made in the development of methods and modeling procedures for structural assessment of marine structures. Various assessment methods are incorporated in the methods used to analyze and design efficient ship structures, as well as in the methods of structural reliability to be used to ensure the safety "Structural and Failure Mechanics of Sandwich Composites" by Leif A. Carlsson and George A. Kardomateas focuses on some important deformation and failure modes of sandwich panels such as global buckling, wrinkling and local instabilities, and face/core debonding. The book also provides the mechanics background necessary for understanding deformation and failure mechanisms in sandwich panels and the response of sandwich structural parts to a variety of loadings. Specifically, first-order and high-order sandwich panel theories, and three-dimensional elasticity solutions for the structural behavior outlined in some detail. Elasticity analysis can serve as a benchmark for judging the accuracy of simplified sandwich plate, shell and beam theories. Furthermore, the book reviews test methods developed for the characterization of the constituent face and core materials, and sandwich beams and plates.

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The characterization of face/core debonding is a major topic of this text, and analysis methods based on fracture mechanics are described and applied to several contemporary test specimens. Test methods and results documented in the literature are included and discussed. The book will benefit structural and materials engineers and researchers with the desire to learn more about structural behavior, failure mechanisms, fracture mechanics and damage tolerance of sandwich structures.

"US domestic politics determine the course of global tax policy because internal division prevents the European Union from challenging American hegemony in underlying negotiations"--

Sandwich panels are being used increasingly as the cladding of buildings like factories, warehouses, cold stores and retail sheds. This is because they are light in weight, thermally efficient, aesthetically attractive and can be easily handled and erected. However, to date, an authoritative book on the subject was lacking. This new reference work aims to fill that gap. The designer, specifier and manufacturer of sandwich panels all require a great deal of information on a wide range of subjects. This book was written by a group of European experts under the editorship of a UK specialist in lightweight construction. It provides guidance on: * materials used in manufacture * thermal efficiency and air- and water-tightness * acoustic performance * performance in fire * durability * special problems of sandwich panels in cold stores and chill rooms * architectural and aesthetic considerations * structural design at the ultimate and serviceability limit states * additional structural considerations including fastenings, the effect of openings and the use of sandwich panels as load-bearing walls * test procedures The book concludes with some numerical design examples and is highly illustrated

throughout.

Vols. for 1970-71 includes manufacturers' catalogs.

often described as the "fifth façade", the flat roof is extremely popular with architects. Its essential task is to shelter the space beneath it from the elements. Beyond this, the use of flat roofs may be optimized by integrating them as green roofs, roof terraces, circulation areas, and even productive solar roofs. In practice, however, their correct and professional realization is a highly exacting task: in addition to providing the planner with basic rules of construction and design, the Flat Roof Manual also supplies an overview of the use and construction types as well as the standard assemblies for flat roofs. Together with the most important standards and bodies of regulations, construction drawings of the principal connection points round out the volume.

This book provides a novel approach to building pathology in current buildings. Drawing on the available literature, hands-on experience and fieldwork inspections, it presents a systematic perspective on the pathology of the building envelope. The book addresses natural stone claddings, adhesive ceramic tiling, renders, painted surfaces, External Thermal Insulation Composite Systems (ETICS), architectural concrete surfaces, windows and doors framing, and claddings for pitched and flat roofs. In addition to highlighting selected materials and construction elements, the book proposes a global classification system for defects and their probable causes, together with in situ diagnosis methods and repair techniques. It also identifies the relationships between defects and causes, diagnosis methods and repair techniques, and the interdependence between different defects, presenting these relations in the form of correlation matrices. Support files with detailed information and an inspection form

are also provided. Selected case studies are presented to illustrate the value of a guidance system in fieldwork. Given its scope, the book offers a valuable guide, particularly for researchers, building inspectors, civil engineers, architects and maintenance planners.

Environmental Noise and Management Selma Kurra, Istanbul Technical University and dBKES Engineering Ltd, Turkey A comprehensive overview of environmental noise pollution from the standpoint of environmental impact and control Environmental noise is studied, regulated and monitored by many governments and institutions, as well as forming the basis for a number of different occupations due to the adverse effects of noise exposure.

Environmental Noise and Management provides a comprehensive overview of environmental noise pollution. The book begins by covering the fundamentals of noise and acoustics, major noise sources and prediction and evaluation techniques. Developments in noise measuring techniques, and mapping and improvement of legislation to control noise pollution are then discussed, and international regulations are presented. Technological advances and recent developments regarding strategy and action plans are also covered in depth. Key features: Summarizes the relevant international standards covering noise pollution and environmental engineering practice. Presents technological advances and recent developments regarding strategy and action plans. Covers

developments in noise measuring techniques, prediction models, mapping and improvement of legislation to control noise pollution. Environmental Noise and Management is a comprehensive resource for researchers and graduate students who are involved in noise pollution from the standpoint of environmental impact and control.

Many marine mammals communicate by emitting sounds that pass through water. Such sounds can be received across great distances and can influence the behavior of these undersea creatures. In the past few decades, the oceans have become increasingly noisy, as underwater sounds from propellers, sonars, and other human activities make it difficult for marine mammals to communicate. This book discusses, among many other topics, just how well marine mammals hear, how noisy the oceans have become, and what effects these new sounds have on marine mammals. The baseline of ambient noise, the sounds produced by machines and mammals, the sensitivity of marine mammal hearing, and the reactions of marine mammals are also examined. An essential addition to any marine biologist's library, Marine Mammals and Noise will be especially appealing to marine mammalogists, researchers, policy makers and regulators, and marine biologists and oceanographers using sound in their research.

Introduce the latest version of the fundamental SQL language used in all

relational databases today with Casteel's ORACLE 12C: SQL, 3E. Much more than a study guide, this edition helps those who have only a basic knowledge of databases master the latest SQL and Oracle concepts and techniques. Learners gain a strong understanding of how to use Oracle 12c SQL most effectively as they prepare for the first exam in the Oracle Database Administrator or Oracle Developer Certification Exam paths. This edition initially focuses on creating database objects, including tables, constraints, indexes, sequences, and more. The author then explores data query techniques, such as row filtering, joins, single-row functions, aggregate functions, subqueries, and views, as well as advanced query topics. ORACLE 12C: SQL, 3E introduces the latest features and enhancements in 12c, from enhanced data types and invisible columns to new CROSS and OUTER APPLY methods for joins. To help readers transition to further studies, appendixes introduce SQL tuning, compare Oracle's SQL syntax with other databases, and overview Oracle connection interface tools: SQL Developer and SQL Plus. Readers can trust ORACLE 12C: SQL, 3E to provide the knowledge for Oracle certification testing and the solid foundation for pursuing a career as a successful database administrator or developer. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Natural Substances for Cancer Prevention explores in detail how numerous investigations in chemical biology and molecular biology have established strong scientific evidence demonstrating how the properties of naturally occurring bioactive chemicals hamper all stages of cancers (from initiation to metastasis). Accordingly, important goals for cancer prevention are the modification of our dietary habits and an increase in the intake of more anticancer-related natural substances. More significantly, the bioactive chemicals presented in the functional foods should be readily available, inexpensive, non-toxic, and nutritional.

The latest edition of this definitive international resource provides detailed information for more than 29,000 organizations active in 289 countries, and is exhaustively cross-referenced to help you: -- Locate international aid groups, business and commercial associations, religious orders, national bodies, fraternities, conferences, and more -- Help patrons find the right contacts in the organizations they need to reach, and identify organizations with similar concerns worldwide -- Facilitate research into any organization's structure, financing, membership, aims and activities, publications, geographic scope, and more. Alphabetically arranged and now in two parts, Volume 1: Organization Descriptions and Cross-References is the most current and far-reaching

reference work available on international bodies. Over 32,000 listings -- including in-depth profiles for some 12,000 major organizations -- cover everything from inter-governmental bodies and conferences to religious orders and fraternities. This book comprises select proceedings of the annual conference of the Indian Geotechnical Society. The conference brings together research and case histories on various aspects of geotechnical engineering and geoenvironmental engineering. The book presents papers on geotechnical applications and case histories, covering topics such as (i) shallow and deep foundations; (ii) stability of earth and earth retaining structures; (iii) rock engineering, tunneling, and underground constructions; (iv) forensic investigations and case histories; (v) reliability in geotechnical engineering; and (vi) special topics such as offshore geotechnics, remote sensing and GIS, geotechnical education, codes, and standards. The contents of this book will be of interest to researchers and practicing engineers alike.

Insights and Innovations in Structural Engineering, Mechanics and Computation comprises 360 papers that were presented at the Sixth International Conference on Structural Engineering, Mechanics and Computation (SEMC 2016, Cape Town, South Africa, 5-7 September 2016). The papers reflect the broad scope of the SEMC conferences, and cover a wide range of engineering structures

(buildings, bridges, towers, roofs, foundations, offshore structures, tunnels, dams, vessels, vehicles and machinery) and engineering materials (steel, aluminium, concrete, masonry, timber, glass, polymers, composites, laminates, smart materials). Some contributions present the latest insights and new understanding on (i) the mechanics of structures and systems (dynamics, vibration, seismic response, instability, buckling, soil-structure interaction), and (ii) the mechanics of materials and fluids (elasticity, plasticity, fluid-structure interaction, flow through porous media, biomechanics, fracture, fatigue, bond, creep, shrinkage). Other contributions report on (iii) recent advances in computational modelling and testing (numerical simulations, finite-element modeling, experimental testing), and (iv) developments and innovations in structural engineering (planning, analysis, design, construction, assembly, maintenance, repair and retrofitting of structures). Insights and Innovations in Structural Engineering, Mechanics and Computation is particularly of interest to civil, structural, mechanical, marine and aerospace engineers. Researchers, developers, practitioners and academics in these disciplines will find the content useful. Short versions of the papers, intended to be concise but self-contained summaries of the full papers, are collected in the book, while the full versions of the papers are on the accompanying CD.

Flammability Testing of Materials used in Construction, Transport, and Mining, Second Edition provides an authoritative guide to current best practice in ensuring fire-safe design. The book begins by discussing the fundamentals of flammability, measurement techniques, and the main types of fire tests for various applications. Building on this foundation, a group of chapters then reviews tests for key materials used in the building, transport, and mining sectors. There are chapters on wood products, external cladding, and sandwich panels as well as the flammability of walls and ceilings linings. Tests for upholstered furniture and mattresses, cables, and electrical appliances are also reviewed. A final group of chapters discusses fire tests for the transport sector, including those for railway passenger cars, aircraft, road and rail tunnels, ships, and submarines. There is also a chapter on tests for spontaneous ignition of solid materials. With its distinguished international team of contributors, Flammability Testing of Materials used in Construction, Transport, and Mining is an invaluable reference for fire safety, civil, chemical, mechanical, mining and transport engineers. In this revised edition, the latest information is provided on fire testing of products, systems, components, and materials used across these essential sectors, with all regulations and standards brought up to date. Relays all new developments in fire safety standards, regulations and performance requirements

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Covers a broad range of infrastructure sectors such as construction, transport, and mining Updated to include cutting-edge fire tests and the latest iteration of standards including ISO, ASTM, and EN

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