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KEY=PDF - SANTOS KELLEY

SINGLE PILES AND PILE GROUPS UNDER LATERAL LOADING, 2ND EDITION

CRC Press *The complexities of designing piles for lateral loads are manifold as there are many forces that are critical to the design of big structures such as bridges, offshore and waterfront structures and retaining walls. The loads on structures should be supported either horizontally or laterally or in both directions and most structures have in common that they are founded on piles. To create solid foundations, the pile designer is driven towards finding the critical load on a certain structure, either by causing overload or by causing too much lateral deflection. This second edition of Reese and Van Impe's course book explores and explains lateral load design and procedures for designing piles and pile groups, accounting for the soil resistance, as related to the lateral deflection of the pile. It addresses the analysis of piles of varying stiffness installed into soils with a variety of characteristics, accounting for the axial load at the top of the pile and for the rotational restraint of the pile head. The presented method using load-transfer functions is currently applied in practice by thousands of engineering offices in the world. Moreover, various experimental case design examples, including the design of an offshore platform pile foundation are given to complement theory. The rich list of relevant publications will serve the user into further reading. Designed as a textbook for senior undergraduate/graduate student courses in pile engineering, foundation engineering and related subjects, this set of book and CD-ROM will also benefit professionals in civil and mining engineering and in the applied earth sciences.*

DESIGN OF SLABS-ON-GROUND

American Concrete Institute

GEOMETRIC STRUCTURE OF HIGH-DIMENSIONAL DATA AND

DIMENSIONALITY REDUCTION

Springer Science & Business Media "*Geometric Structure of High-Dimensional Data and Dimensionality Reduction*" adopts data geometry as a framework to address various methods of dimensionality reduction. In addition to the introduction to well-known linear methods, the book moreover stresses the recently developed nonlinear methods and introduces the applications of dimensionality reduction in many areas, such as face recognition, image segmentation, data classification, data visualization, and hyperspectral imagery data analysis. Numerous tables and graphs are included to illustrate the ideas, effects, and shortcomings of the methods. MATLAB code of all dimensionality reduction algorithms is provided to aid the readers with the implementations on computers. The book will be useful for mathematicians, statisticians, computer scientists, and data analysts. It is also a valuable handbook for other practitioners who have a basic background in mathematics, statistics and/or computer algorithms, like internet search engine designers, physicists, geologists, electronic engineers, and economists. Jianzhong Wang is a Professor of Mathematics at Sam Houston State University, U.S.A.

PLANT ELECTROPHYSIOLOGY

THEORY AND METHODS

Springer Science & Business Media This book compiles new findings in plant electrophysiology from the work of internationally renowned experts in the fields of electrophysiology, bio-electrochemistry, biophysics, signal transduction, phloem transport, tropisms, ion channels, plant electrochemistry, and membrane transport. Opening with a historical introduction, the book reviews methods in plant electrophysiology, introducing such topics as measuring membrane potentials and ion fluxes, patch-clamp technique, and electrochemical sensors. The coverage includes experimental results and their theoretical interpretation.

BIOMEDICAL INSIGHTS THAT INFORM THE DIAGNOSIS OF ME/CFS

MDPI Myalgic encephalomyelitis/chronic fatigue syndrome (ME/CFS) is a severe chronic health condition that is often misunderstood or ignored by health establishments. The lack of definitive diagnostic markers to separate ME/CFS patients from the healthy population as well as from other chronic disorders is problematic for both health professionals and researchers. A consortium of Australian researchers gathered to systematically understand ME/CFS, ranging from a deep analysis of clinical and pathology data to metabolomic profiles and the investigation of mitochondrial function. From this broad collaboration, a number of compelling insights have arisen that may form the basis of specific serum, blood, and/or urinary biomarkers of ME/CFS. This Special Edition reports on a conference centred on these biomedical discoveries, with other contributions, with a translation focus for predictive markers for ME/CFS diagnosis. By supporting health professionals with developments in diagnostics for this condition, the patients and their families will hopefully benefit from an improved recognition of the biomedical underpinnings of the condition and will be better able to access the care that is urgently required.

This Special Edition contains a mix of speaker submissions and other accepted manuscripts that contributed to our objective of advancing biomedical insights to enable the accurate diagnosis of ME/CFS.

THE BENEFITS OF PLANT EXTRACTS FOR HUMAN HEALTH

MDPI *Nature has always been, and still is, a source of food and ingredients that are beneficial to human health. Nowadays, plant extracts are increasingly becoming important additives in the food industry due to their antimicrobial and antioxidant activities that delay the development of off-flavors and improve the shelf life and color stability of food products. Due to their natural origin, they are excellent candidates to replace synthetic compounds, which are generally considered to have toxicological and carcinogenic effects. The efficient extraction of these compounds from their natural sources and the determination of their activity in commercialized products have been great challenges for researchers and food chain contributors to develop products with positive effects on human health. The objective of this Special Issue is to highlight the existing evidence regarding the various potential benefits of the consumption of plant extracts and plant-extract-based products, with emphasis on in vivo works and epidemiological studies, the application of plant extracts to improving shelf life, the nutritional and health-related properties of foods, and the extraction techniques that can be used to obtain bioactive compounds from plant extracts.*

MATHEMATICAL MODELING OF WATER QUALITY

STREAMS, LAKES, AND RESERVOIRS

John Wiley & Sons

INTELLIGENT COMPUTING, COMMUNICATION AND DEVICES

PROCEEDINGS OF ICCD 2014, VOLUME 1

Springer *In the history of mankind, three revolutions which impact the human life are tool-making revolution, agricultural revolution and industrial revolution. They have transformed not only the economy and civilization but the overall development of the human society. Probably, intelligence revolution is the next revolution, which the society will perceive in the next 10 years. ICCD-2014 covers all dimensions of intelligent sciences, i.e. Intelligent Computing, Intelligent Communication and Intelligent Devices. This volume covers contributions from Intelligent Computing, areas such as Intelligent and Distributed Computing, Intelligent Grid & Cloud Computing, Internet of Things, Soft Computing and Engineering Applications, Data Mining and Knowledge discovery, Semantic and Web Technology, and Bio-Informatics. This volume also covers paper from Intelligent Device areas such as Embedded Systems, RFID, VLSI Design & Electronic Devices, Analog and Mixed-Signal IC Design and Testing, Solar Cells and Photonics, Nano Devices and Intelligent Robotics.*

ADVANCES IN FRESH-CUT FRUITS AND VEGETABLES PROCESSING

CRC Press *Despite a worldwide increase in demand for fresh-cut fruit and vegetables, in many countries these products are prepared in uncontrolled conditions and have the potential to pose substantial risk for consumers. Correspondingly, researchers have ramped up efforts to provide adequate technologies and practices to assure product safety while keeping n*

THE AMPLEFORTH JOURNAL

AQUATIC DICOTYLEDONS OF NORTH AMERICA

ECOLOGY, LIFE HISTORY, AND SYSTEMATICS

CRC Press *Aquatic Dicotyledons of North America: Ecology, Life History, and Systematics brings together a wealth of information on the natural history, ecology, and systematics of North American aquatic plants. Most books on aquatic plants have a taxonomic focus and are intended primarily for identification. Instead, this book provides a comprehensive overview of the biology of major aquatic species by compiling information from numerous sources that lie scattered among the primary literature, herbarium databases, and other reference materials. Included dicotyledon species are those having an obligate (OBL) wetland status, a designation used in the USACE National Wetland Plant List. Recent phylogenetic analyses are incorporated and rationale is provided for interpreting this information with respect to species relationships. This diverse assemblage of information will be useful to a wide range of interests including academic researchers, wildlife managers, students, and virtually anyone interested in the natural history of aquatic and wetland plants. Although focusing specifically on North America, the cosmopolitan distribution of many aquatic plants should make this an attractive text to people working virtually anywhere outside of the region as well. This book is an essential resource for assisting with wetland delineation.*

QSAR IN ENVIRONMENTAL TOXICOLOGY

PROCEEDINGS OF THE WORKSHOP ON QUANTITATIVE STRUCTURE-ACTIVITY RELATIONSHIPS (QSAR) IN ENVIRONMENTAL TOXICOLOGY HELD AT MCMASTER UNIVERSITY, HAMILTON, ONTARIO, CANADA, AUGUST 16-18, 1983

Springer Science & Business Media *Ever since Rachel Carson's Silent Spring, we have generally become aware of environmental contaminants and their effects on the ecosystem. The findin~ of PCB's in fish by Soren Jensen in Sweden, the recognition of mirex as contaminant in fish from Lake Ontario, and the discoveries of contaminant laden leachates from dumpsites such as the Love Canal have become milestones in the search for and charac terization of contaminants in our environment. At this time, the problem no longer is so much the identifi cation of contaminants and their sources. Rather, we are now faced with solving questions on the fates and effects of such compounds. This includes the search for mechanisms to*

deal effectively with the large number of chemicals already found in water, air and biota. One of such time and cost saving scientific avenues is the field of quantitative structure-activity correlations for the prediction of the environmental behavior and effects of compounds.

ECONOMICS, MANAGEMENT AND SUSTAINABILITY

ESSAYS IN HONOUR OF ANUP SINHA

Springer This book presents an eclectic mix of interesting new areas in the domain of economics, management and sustainability. Written by leading experts, it provides valuable food for thought, with essays introducing new lines of research and empirical research papers offering sound research methodology. The book not only provides answers, but also raises numerous interesting questions concerning the areas covered to whet readers' appetites to learn more. Professor Anup Sinha is a respected teacher and is a great mind with wide-ranging academic interests spanning from economics and sustainability to management. As well as in various other places in India and the US, he has taught at the Indian Institute of Management Calcutta and Presidency College (now a University) Calcutta for almost three decades. To commemorate his contributions, this festschrift presents a collection of essays that are broadly subdivided into four sections: Economic Development; Vulnerabilities and Inclusive Growth; Sustainability and Corporate Governance; and Innovation and Management.

HISTORY FROM MARBLE

**COMPILED IN THE REIGN OF CHARLES II. BY THOMAS DINGLEY, GENT.
: PRINTED IN PHOTOLITHOGRAPHY BY VINCENT BROOKS, FROM THE
ORIGINAL IN THE POSSESSION OF SIR THOMAS E. WINNINGTON,
BART**

HOW MUCH HABITAT IS ENOUGH?

Environment Canada

ADIPOSE-DERIVED STEM CELLS

METHODS AND PROTOCOLS

Humana Press During the past decade, a wide range of scientific disciplines have adopted the use of adipose-derived stem/stromal cells (ASCs) as an important tool for research and discovery. In *Adipose-Derived Stem Cells: Methods and Protocols*, experts from the field, including members of the esteemed International Federation of Adipose Therapeutics and Science (IFATS), provide defined and established protocols in order to further codify the utilization of these powerful and accessible cells. With chapters organized around approaches spanning the discovery, pre-clinical, and clinical processes, much of the emphasis is placed on human ASC, while additional techniques involving small and large animal species are included. As a volume in the highly successful *Methods in Molecular Biology*TM series, the detailed

contributions include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and notes on troubleshooting and avoiding known pitfalls. *Comprehensive and cutting-edge, Adipose-Derived Stem Cells: Methods and Protocols* serves as a vital reference text for experienced researchers as well as new students on the path to further exploring the incredible potential of ASCs.

THE BENT LENS

A WORLD GUIDE TO GAY AND LESBIAN FILM

Allen & Unwin *The definitive international guide to gay, lesbian and queer film and video.*

PERFORMANCE MANAGEMENT IN THE PUBLIC SECTOR

Routledge *In times of rising expectations and decreasing resources for the public sector, performance management is high on the agenda. Increasingly, the value of the performance management systems themselves is under scrutiny, with more attention being paid to the effectiveness of performance management in practice. This new edition has been revised and updated to examine: performance in the context of current public management debates, including emerging discussions on the New Public Governance and neo-Weberianism; the many definitions of performance and how it has become one of the most contested agendas of public management; the so-called perverse effects of using performance indicators; the technicalities of performance measurement in a five step process: prioritising measurement, indicator development, data collection, analysis and reporting; and the future challenges and directions of performance management* *Performance Management in the Public Sector 2nd edition offers an approachable insight into a complex theme for practitioners and public management students alike.*

PHYSICAL THERAPY PERSPECTIVES IN THE 21ST CENTURY

CHALLENGES AND POSSIBILITIES

IntechOpen *This book contains new information on physical therapy research and clinical approaches that are being undertaken into numerous medical conditions; biomechanical and musculoskeletal conditions as well as the effects of psychological factors, body awareness and relaxation techniques; specific and specialist exercises for the treatment of scoliosis and spinal deformities in infants and adolescents; new thermal agents are being introduced and different types of physical therapy interventions are being introduced for the elderly both in the home and clinical setting. Additionally research into physical therapy interventions for patients with respiratory, cardiovascular disorders and stroke is being undertaken and new concepts of wheelchair design are being implemented.*

EXERCISE AND SPORTS CARDIOLOGY

(IN 3 VOLUMES)VOLUME 1: CARDIAC ADAPTATIONS AND ENVIRONMENTAL STRESS DURING EXERCISEVOLUME 2: SPECIFIC DISEASES AND ATHLETESVOLUME 3: EXERCISE RISKS, CARDIAC ARRHYTHMIAS AND UNUSUAL PROBLEMS IN ATHLETES

World Scientific Publishing *Cardiac problems in athletic individuals are rare, but when they occur can be devastating. This book provides a definitive review of current practice and thinking surrounding the often difficult and life-changing practice of sports cardiology. Topics which remain a challenge for practitioners, athletes and families are investigated, including cardiovascular screening, exercise participation prescription, and prevention strategies for sudden cardiac arrest. Also given are medical guidelines for diagnosis, management and treatment of specific cardiac illnesses. Based on their earlier work Exercise and Sports Cardiology (2001), editors Paul Thompson and Antonio Fernandez have provided an updated, improved 3-part reference work for cardiologists, physicians, coaches, trainers, medical students and researchers with a comprehensive go-to reference for modern day concerns in the expanding field of sports cardiology research and treatment.*

MORPHOGENESIS IN PLANTS

MOLECULAR APPROACHES

Springer Science & Business Media *Proceedings of a NATO ASI held in Crete, Greece, September 5-17, 1992.*

GUIDE TO THE PREPARATION, USE AND QUALITY ASSURANCE OF BLOOD COMPONENTS

RECOMMENDATION NO. R (95) 15

Manhattan Publishing Company

HERBIVORES: THEIR INTERACTIONS WITH SECONDARY PLANT METABOLITES

ECOLOGICAL AND EVOLUTIONARY PROCESSES

Academic Press *This volume presents the latest research on herbivores, aquatic and terrestrial mammals and insects. The Second Edition, written almost entirely by new authors, effectively complements the initial work. It includes advances in molecular biology and microbiology, ecology, and evolutionary theory that have been achieved since the first edition was published in 1979. The book also incorporates relatively new methodologies in the area of molecular biology, like protein purification and gene cloning. Volume II, Ecological and Evolutionary Processes, also opens up entirely new subjects: The discussions of interactions have expanded to include phenomena at higher trophic levels, such as predation and microbial processing and other environmental influences. Both this and Volume I, The Chemical Participants, will be of interest to chemists, biochemists, plant and insect ecologists, evolutionary biologists, physiologists, entomologists, and*

agroecologists interested in both crop and animal science. Presents coevolution of herbivores and host plants Examines resource availability and its effects on secondary metabolism and herbivores Studies physiology and biochemistry of adaptation to hosts Includes tri-trophic interactions involving predators and microbes

THE CIRCADIAN CLOCK

Springer Science & Business Media With the invitation to edit this volume, I wanted to take the opportunity to assemble reviews on different aspects of circadian clocks and rhythms. Although most contributions in this volume focus on mammalian circadian clocks, the historical introduction and comparative clocks section illustrate the importance of various other organisms in deciphering the mechanisms and principles of circadian biology. Circadian rhythms have been studied for centuries, but only recently, a molecular understanding of this process has emerged. This has taken research on circadian clocks from mystic phenomenology to a mechanistic level; chains of molecular events can describe phenomena with remarkable accuracy. Nevertheless, current models of the functioning of circadian clocks are still rudimentary. This is not due to the faultiness of discovered mechanisms, but due to the lack of undiscovered processes involved in contributing to circadian rhythmicity. We know for example, that the general circadian mechanism is not regulated equally in all tissues of mammals. Hence, a lot still needs to be discovered to get a full understanding of circadian rhythms at the systems level. In this respect, technology has advanced at high speed in the last years and provided us with data illustrating the sheer complexity of regulation of physiological processes in organisms. To handle this information, computer aided integration of the results is of utmost importance in order to discover novel concepts that ultimately need to be tested experimentally.

SPANISH, GRADE 1

Carson-Dellosa Publishing Brighter Child(R) Spanish for Grade 1 helps students master beginning foreign language skills. Practice is included for learning color words, animal words, family words, and more. School success starts here! Workbooks in the popular Brighter Child(R) series are packed with plenty of fun activities that teach a variety of essential school skills. Students will find help for math, English and grammar, handwriting, and other important subject areas. Each book contains full-color practice pages, easy-to-follow instructions, and an answer key.

HANDBOOK OF PSYCHOLOGY, PERSONALITY AND SOCIAL PSYCHOLOGY

John Wiley & Sons Includes established theories and cutting-edge developments. Presents the work of an international group of experts. Presents the nature, origin, implications, an future course of major unresolved issues in the area.

QSAR IN ENVIRONMENTAL TOXICOLOGY - II

PROCEEDINGS OF THE 2ND INTERNATIONAL WORKSHOP ON QSAR IN ENVIRONMENTAL TOXICOLOGY, HELD AT MCMASTER UNIVERSITY, HAMILTON, ONTARIO, CANADA, JUNE 9-13, 1986

Springer Science & Business Media *Over the past few years, research in the field of quantitative structure-activity relationships (QSAR) in chemistry, biology, pharmacology, toxicology, and environmental sciences has seen strong growth. New journals and books have appeared in each of these fields, however, the combination of QSAR and environmental sciences is still in its infancy. After the success of the Workshop on Quantitative Structure-Activity Relationships (QSAR) in Environmental Toxicology, held at McMaster University, August 16-18, 1983, with the proceedings published in 1984 [QSAR in Environmental Toxicology, Kaiser, K. L. E. (Ed.), D. Reidel Publ. Co., Dordrecht, 406 p., ISBN 90-277-1776-1], it was time to hold another workshop in 1986. Indeed, the response by the scientific community was excellent with over 50 participants from Canada, Germany, Great Britain, Hungary, India, Japan, The Netherlands, United States, and Yugoslavia. Moreover, both breadth and depth of papers given were significantly improved and the workshop discussions were intense and frank. Regrettably, the number of participants, number of papers given and submitted for these proceedings made it impossible to include the workshop discussions of these papers. However, several manuscripts were revised on the basis of these discussions and, therefore, do reflect this very interactive workshop. This volume presents the majority of papers given at the 2nd International Workshop on QSAR in Environmental Toxicology, held at McMaster University, June 9-13, 1986. Many of these papers contain primary, new scientific data, equations and results which will not appear elsewhere.*

(RE)CONSTRUCTING MEMORY: TEXTBOOKS, IDENTITY, NATION, AND STATE

Springer *This book engages readers in thirteen conversations presented by authors from around the world regarding the role that textbooks play in helping readers imagine membership in the nation. Authors' voices come from a variety of contexts – some historical, some contemporary, some providing analyses over time. But they all consider the changing portrayal of diversity, belonging and exclusion in multiethnic and diverse societies where silenced, invisible, marginalized members have struggled to make their voices heard and to have their identities incorporated into the national narrative. The authors discuss portrayals of past exclusions around religion, ethnicity, sexual orientation, as they look at the shifting boundaries of insider and outsider. This book is thus about “who we are” not only demographically, but also in terms of the past, especially how and whether we teach discredited pasts through textbooks. The concluding chapters provides ways forward in thinking about what can be done to promote curricula that are more inclusive, critical and positively bonding, in increasingly larger and more inclusive contexts.*

FACULTY AND STUDENT PROGRAMS

SUSTAINING YOUNG FOREST COMMUNITIES

ECOLOGY AND MANAGEMENT OF EARLY SUCCESSIONAL HABITATS IN THE CENTRAL HARDWOOD REGION, USA

Springer Science & Business Media *This edited volume addresses a rising concern among natural resource scientists and management professionals about decline of the many plant and animal species associated with early-successional habitats, especially within the Central Hardwood Region of the USA. These open habitats, with herbaceous, shrub, or young forest cover, are disappearing as abandoned farmland, pastures, and cleared forest patches return to forest. There are many questions about “why, what, where, and how” to manage for early successional habitats. In this book, expert scientists and experienced land managers synthesize knowledge and original scientific work to address questions on such topics as wildlife, water, carbon sequestration, natural versus managed disturbance, future scenarios, and sustainable creation and management of early successional habitat in a landscape context.*

GLIAL ↔ NEURONAL SIGNALING

Springer Science & Business Media *Glial Neuronal Signaling fills a need for a monograph/textbook to be used in advanced courses or graduate seminars aimed at exploring glial-neuronal interactions. Even experts in the field will find useful the authoritative summaries of evidence on ion channels and transporters in glia, genes involved in signaling during development, metabolic cross talk and cooperation between astrocytes and neurons, to mention but a few of the timely summaries of a wide range of glial-neuronal interactions. The chapters are written by the top researchers in the field of glial-neuronal signaling, and cover the most current advances in this field. The book will also be of value to the workers in the field of cell biology in general. When we think about the brain we usually think about neurons. Although there are 100 billion neurons in mammalian brain, these cells do not constitute a majority. Quite the contrary, glial cells and other non-neuronal cells are 10-50 times more numerous than neurons. This book is meant to integrate the emerging body of information that has been accumulating, revealing the interactive nature of the brain's two major neural cell types, neurons and glia, in brain function.*

A COMPARATIVE STUDY OF ELITE ENGLISH-MEDIUM SCHOOLS, PUBLIC SCHOOLS, AND ISLAMIC MADARIS IN CONTEMPORARY PAKISTAN

Lulu.com

PUBLISHERS' INTERNATIONAL ISBN DIRECTORY 2015

K.G. Saur Verlag *The 41st edition of this established reference work offers a wealth of information on the worldwide publishing landscape. It includes more than 1,100,000 publishers' ISBN prefixes from 221 countries and territories. The Geographical Section (volumes 1-5) provides the names of more than 1,000,000*

active publishing houses, arranged alphabetically by country, and within country by name. Entries contain the full address including email and URL particulars as well as ISBN prefixes. Publishers can be identified via their ISBN prefixes through the Numerical ISBN Section (volumes 6-7).

ANTHOCYANINS IN LEAVES

*Anthocyanins are the pigments in leaves and fruits that give them their colour; for example, the red colour of strawberries, or red leaves in autumn. Although these pigments are especially prominent in the autumn foliage of deciduous trees and in the growth flushes of tropical rainforest plants, they are also found in the leaves of many species after exposure to environmental or biotic stresses. Although the control of anthocyanin synthesis in vegetative organs has long been studied, and is a model system in plant molecular genetics, potential functions of these pigments in leaves have been largely ignored. This volume pulls together new information from experts in the fields of genetics, biochemistry, molecular biology, physiological ecology and plant development, providing a platform to discuss putative hypotheses for anthocyanin function in these vegetative organs. * First comprehensive volume on the function of anthocyanins in plants * Written by internationally recognized authorities at the leading edge of the relevant science * For over 30 years, series has enjoyed a reputation for excellence*

THE BIGGEST SECRET

David Icke Books *In documented detail, the author argues that the same interconnecting bloodlines have controlled the planet for thousands of years. Original.*

ENVIRONMENTAL IMPACT ASSESSMENT TRAINING RESOURCE MANUAL

Conran Octopus *The main objective of the training resource manual (TRM) is to enable trainers, particularly, in developing countries and CITs to develop and produce site and situation specific training courses for the different target groups who are concerned with environmental impact assessment (EIA). The use of the TRM will contribute directly to the building of local capacity to develop EIA procedures and legislation, to conduct EIA, administer, monitor and evaluate the implementation of EIA.--Publisher's description.*

SILENT WEAPONS FOR QUIET WARS

AN INTRODUCTORY PROGRAMMING MANUAL

IMPACT ON COMPOSITE STRUCTURES

Cambridge University Press *Composites are used extensively in engineering applications. A constant concern is the effect of foreign object impacts on composite structures because significant damage can occur and yet be undetectable by visual inspection. Such impacts can range from the most ordinary at low velocity--a tool*

dropped on a product--to the hypervelocity impact of space debris on a spacecraft. This book explains how damage develops during impact, the effect of impact-induced damage on the mechanical behavior of structures, and methods of damage prediction and detection. Numerous examples are included to illustrate these topics. Written for graduate students, as well as researchers and practicing engineers working with composite materials, this book presents state-of-the-art knowledge on impact dynamics while requiring only basic understanding of the mechanics of composite materials.

ANTENNAS

FOR ALL APPLICATIONS

This is an exciting revision of John Kraus' classic book Antennas, which has been long known as the "Antenna Bible". A new co-author, Ronald Marhefka has joined the author team for this revision. Many new, modern applications have been added--thus the title change to Antennas with All Applications. As well, the references have been updated to include recent additions to the literature. Additionally, the book has been reorganized to make it more user-friendly for both students and professionals. The book now covers the fundamentals of various antennas and concepts in the first half of the book and then gets into more details on those same topics later in the book. This allows a one-semester course to just cover the fundamentals if desired, and a professional to focus on advanced topics if he or she wants.

THE OXFORD HANDBOOK OF NON-SYNOPTIC WIND STORMS HAZARDS

"Wind storms impact human lives, their built as well as natural habitat. During the last century, society's vulnerability to wind storms has been reduced by enhanced knowledge of their impact and by controlling exposure through better design. However, only two of the wind systems have so far been considered in the design of buildings and structures, i.e., synoptic winds resulting from macroscale weather systems spanning thousands of kilometers, e.g., extratropical storms, and mesoscale tropical storms spanning hundreds of kilometers and traveling fast, e.g., hurricanes/typhoons/cyclones. During the last two decades, enough evidence has surfaced to support that a third type of very localized wind storms, the non-synoptic winds, are the most damaging in some regions of the world. Thus far there are no design provisions established for the codification of these wind storms. Their characterization in terms of climatology, wind field and intensity, frequency and occurrence, as well as their impact on the built environment, is slowly developing. This handbook presents the state-of-the-art of knowledge related to all these features including their risk, insurance issues, and economics. The research in this area is on the one hand more arduous given the reduced scale, the three-dimensionality, and nonstationary aspects of these non-synoptic winds while, at the same time, its understanding and modeling are being aided by the emergence of novel modeling and simulation techniques which are addressed in this handbook. This will serve as a guiding resource for those interested in learning about and contributing to the advancement of the field"--