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Non-Hydrostatic Free Surface Flows Springer

Dixon and his colleagues provide a behaviorist perspective on governance. Their concern is with the governed's responses to those who seek to govern them-their governors-and the counter responses that they induce from the governors. They take as axiomatic that the governed are not a homogenized and amorphus them in the them-us dichotomy, reduced to what Carlyle called a dead logic formula, thereby, for the purpose of this analysis, leave begging all the relevant questions. The governed are not a disembodied abstraction; they are an aggregate of men and women of flesh and blood. In a corporation, they are corporate directors (whose governors are those who own or, perhaps, have a stake in that corporation), corporate managers (whose governors are the corporate directors), corporate employees (whose governors are the corporate managers). In a society, they are individuals or groups of individuals, perhaps in corporations, located within its jurisdiction (whose governors are the members of societal politial and administrative elites). At the global level, they are individuals or groups of individuals in countries and corporations within the jurisdiction of international governmental organizations and international regimes (whose governors are those who seek to control those global governance mechanisms). Whether the governed's response to their governors' processs is one of compliance or antagonism, and how the governors response to any antagoism, has implications for governance capacity, good governance, and governability. A provocative study that will be of interest to students and scholars of political theory, international relations, and management and organizational theory as well as those who are concerned with issues of goverance at all levels, corporate, societal,and global.

Combustion Theory Springer Science & Business Media

This book contains more than 300 papers presented at the 28th International Conference on Coastal Engineering, held in Cardiff, Wales, in July 2002. It is divided into five parts: coastal waves; nearshore currents, swash, and long waves; coastal structures; sediment transport; and coastal morphology, beach nourishment, and coastal management. The papers cover a broad range of topics, including theory, numerical and physical modeling, field measurements, case studies, design, and management. Coastal Engineering 2002 provides engineers, scientists, and planners with state-of-the-art information on coastal engineering and coastal processes.

The Handbook of Groundwater Engineering Food & Agriculture Org.

This book is the fourth of four dealing with bioclimatic design and construction by focusing on the most basic and polyvalent of modern environmental systems: the bioclimatic greenhouse, the "Swiss-army chainsaw" of architecture. More specifically, this fourth volume focuses on architectural integration, environmental prediction and how to simulate and structurally size a bioclimatic wooden greenhouse. In more general terms, it helps us to consider how to design and build the structure of bioclimatic, low-energy architecture, with low environmental impact. This multi-volume book covers both free-standing greenhouses that can naturally heat and cool themselves, and lean-to greenhouses that support the natural heating and cooling of buildings; this includes both agricultural greenhouses and greenhouses suited to host people. As a result, it is a trans-disciplinary work deriving its areas of concern from a broad range of study areas, spanning from environmental, to constructional, to structural, drawing the clarity of the approach from the fact that the topics are presented by a single author with a single voice and a designer's mindset. To achieve this, the book adopts a composite set of explanatory strategies and communication registers – including extensive support by 3D construction drawings and examples – and presents not only stateof-the-art solutions, but also experimental ones.

Sustainable Water Systems Springer

Pseudo-static analysis is still the most-used method to assess the stability of geotechnical systems that are exposed to earthquake forces. However, this method does not provide any information about the deformations and permanent displacements induced by seismic activity. Moreover, it is questionable to use this approach when geotechnical systems are affected by frequent and rare seismic events. Incidentally, the peak ground acceleration has increased from 0.2-0.3 g in the seventies to the current value of 0.6-0.8 g. Therefore, a shift from the pseudo-static approach to performance-based analysis is needed. Over the past five years considerable progress has been made in Earthquake Geotechnical Engineering Design (EGED). The most recent advances are presented in this book in 6 parts. The evaluation of the site amplification is covered in Part I of the book. In Part II the evaluation of the soil foundation stability against natural slope failure and liquefaction is treated. In the following 3 Parts of the book the EGED for different geotechnical systems is presented as follows: the design of levees and dams including natural slopes in Part III; the design of foundations and soil structure interaction analysis in Part IV; underground structures in Part V. Finally in Part VI, new topics like the design of reinforced earth retaining walls and landfills are covered.

Unsaturated Soils, Two Volume Set CRC Press

This new edition adds several new chapters and is thoroughly updated to include data on new topics such as hydraulic fracturing, CO2 sequestration, sustainable groundwater management, and more. Providing a complete treatment of the theory and practice of groundwater engineering, this new handbook also presents a current and detailed review of how to model the flow of water and the transport of contaminants both in the unsaturated and saturated zones, covers the protection of groundwater, and the remediation of contaminated groundwater.

Coastal Engineering 2002 John Wiley & Sons

Specifically focusing on fluid film, hydrodynamic, and elastohydrodynamic lubrication, this edition studies the most important principles of fluid film lubrication for the correct design of bearings, gears, and rolling operations, and for the prevention of friction and wear in engineering designs. It explains various theories, procedures, and equations for improved solutions to machining challenges. Providing more than 1120 display equations and an introductory section in each chapter, Fundamentals of Fluid Film Lubrication, Second Edition facilitates the analysis of any machine element that uses fluid film lubrication and strengthens understanding of critical design concepts.

Fundamentals of Fluid Film Lubrication CRC Press

Combustion Theory delves deeper into the science of combustion than most other texts and gives insight into combustions from a molecular and a continuum point of view. The book presents derivations of the basic equations of combustion theory and contains appendices on the background of subjects of thermodynamics, chemical kinetics, fluid dynamics, and transport processes. Diffusion flames, reactions in flows with negligible transport and the theory of pre-mixed flames are treated, as are detonation phenomena, the combustion of solid propellents, and ignition, extinction, and flamibility pehnomena.

Coastal Engineering 2002: Solving Coastal Conundrums - Proceedings Of The 28th International Conference (In 3 Vols) John Wiley & Sons

This revised and updated guide presents a proven method for policy and health professionals to promote community-based progress in developing nations. Daniel C. and Carl E. Taylor built their decades-long careers by partnering with key thinkers to combat inequity, environmental degradation, and globalization. Their innovative SEED-SCALE model enables people to transform their communities by analyzing their local context in relation to the global, taking appropriate actions based on their priorities and resources, and assessing what next steps may be needed for continuing progress. Just and Lasting Change describes, step by step, how the SEED-SCALE model can be effectively implemented. Drawing from a variety of personal experiences and case studies, the authors describe historical attempts to promote social development, as well as current efforts in South America, Africa, and Asia. This wide-ranging book touches on examples of community-based change from Abraham Lincoln’s leadership style to the Green Bay Packers’s ownership model. It also explores thematic global examples from the anti-smoking campaign, Green Revolution, Child Survival Revolution, and urban agriculture. This second edition is fully revised and updated with: Five completely new chapters Thirteen years of scholarship and global evidence New contributions from leading international experts in community-based development and public health

Slope Stabilization and Erosion Control: A Bioengineering Approach Springer Science & Business Media

Tunnelling for a Better Life contain the contributions presented at the ITA-AITES World Tunnel Congress 2024, which was held from 19-25 April 2024 in Shenzhen, China. As urbanization accelerates, the pivotal role of tunnels and underground spaces in fostering environmental sustainability and improving quality of life becomes ever more pronounced. These underground structures serve as sustainable solutions to the challenges posed by rapid urban growth. By seamlessly integrating into urban landscapes, they alleviate congestion, reduce pollution, and enhance overall mobility, thus contributing to a greener and more sustainable urban environment. Moreover, tunnels and underground works provide vital support for various urban functions, such as accommodating economic activities, providing safe shelters during emergencies or disasters, and facilitating efficient utility management. They address immediate urban needs and lay the foundation for a better and more resilient future. By focusing on the latest trends in tunnelling and underground engineering, and looking ahead to the era of low-carbon and intelligent technology, the papers in this book illustrate the transformative potential of tunnels and underground works in shaping a better life for present and future generations. The contributions cover a comprehensive range of topics on tunnel engineering, showcasing the latest advancements, insights, and innovations across the following areas: 1. Planning and General Aspects 2. Design and Methodology 3. Geotechnics, Geology and Geophysical Prospecting 4. Ground Stability and Consolidation 5. Support and Lining 6. Conventional Tunnelling 7. Mechanized Tunneling (TBM, shield) 8. Immersed Tunnels 9. Waterproofing and Drainage 10. Instrumentation and Monitoring/ Testing and Inspection 11. Digital and Information Technology 12. Machine Learning 13. Underground Caverns/Underground Space Use 14. Operational Safety, Maintenance and Repair 15. Contractual Practices and Risk Management Tunnelling for a Better Life is a must-read for professionals, engineers, owners, and other stakeholders worldwide in tunnelling and underground engineering.

Fundamentals of Fluid Film Lubrication John Wiley & Sons

This book is an up-to-date review of research and practice on the use of vegetation for slope stabilization and control of surface erosion caused by water and wind. From a basic understanding of the principles and practices of vegetation growth and establishment, it describes how vegetation can be treated as an engineering material and used to solve erosion and slope stability problems.

Aquifer Test Solutions Bloomsbury Publishing USA

This book is the Proceedings of a State-of-the-Art Workshop on Connenctions and the Behaviour, Strength and Design of Steel Structures held at Laboratoire de Mecanique et Technologie, Ecole Normale, Cachan France from 25th to 27th May 1987. It contains the papers presented at the above proceedings and is split into eight main sections covering: Local Analysis of Joints, Mathematical Models, Classification, Frame Analysis, Frame Stability and Simplified Methods, Design Requirements, Data Base Organisation, Research and Development Needs. With papers from 50 international contributors this text will provide essential reading for all those involved with steel structures.

Fractional Calculus for Hydrology, Soil Science and Geomechanics CRC Press

Unsaturated soil mechanics is now increasingly recognized as an integral part of mainstream soil mechanics, and the importance and relevance of unsaturated soil mechanics for the broad field of geotechnical engineering no longer needs to be emphasized. The two volumes making up Unsaturated soils include papers from the 4th Asia Pacific Confere

The Office of Environmental Management Technical Reports CRC Press

Proceedings of the 26th Symposium of the International Committee on Aeronautical Fatigue are a widely referenced summary of advances in aeronautical design against fatigue. This is a bi-annual event and the proceedings have been published in book form for over 35 years.

Earthquake Geotechnical Engineering Design Frontiers Media SA

It is true that "Nothing is more practical than theory" as Boltzmann said. Provided - however - that the assumptions on which The theory is founded are well understood. But. indeed. engineering costly experience shows that "Nothing can be more disastrous than a theory" when applied To a real task outside of practical limits of the assumptions made. Because of an homonymous identity with the considered problem. J.T.P The growing interest in Isodyne

Stress Analysis and the related experience of the author show that the major monograph and reference book on the subject, Isodyne Stress Analysis by Jerzy T. Pindera and Marek-Jerzy Pindera, [27], does not of contain sufficiently detailed data on the theories and techniques experimentation. The purpose of this work is to close this gap. Thus, this work is an extension of Isodyne Stress Analysis and complementary to it. Consequently, only a short outline of the theory ofisodynes is given in Chapter 2. Only the basic concepts and relations are presented to provide the link between the underlying analytical and optical theories and the experimental techniques. One of the major purposes of a preface is to formulate and explain the chosen frame of reference in a condensed form, even when some components of it are discussed in the text. A main issue of the underlying frame of reference pertains to the roles of the abstract thinking and of the observation in cognition of reality.

ICAF 2011 Structural Integrity: Influence of Efficiency and Green Imperatives World Scientific

With an emphasis on methodology, this reference provides a comprehensive examination of water movement as well as the movement of various pollutants in the earth's subsurface. The multidisciplinary approach integrates earth science, fluid mechanics, mathematics, statistics, and chemistry. Ideal for both professionals and students, this is a practical guide to the practices, procedures, and rules for dealing with groundwater.

Case Histories in Vibration Analysis and Metal Fatigue for the Practicing Engineer Springer Nature

This book comprises the select peer-reviewed proceedings of the Indian Geotechnical Conference (IGC) 2021. The contents focus on Geotechnics for Infrastructure Development and Innovative Applications. This book covers topics related to shallow foundations, pile & piled raft foundation, geotechnical design of foundation, wind turbine foundation, foundations on problematic soils, forensic geotechnical engineering, and case studies on geotechnical failures. This book is of interest to those in academia and industry.

Annual Report of the National Advisory Committee for Aeronautics Springer

This highly accessible book provides analytical methods and guidelines for solving vibration problems in industrial plants and demonstrates their practical use through case histories from the author's personal experience in the mechanical engineering industry. It takes a simple, analytical approach to the subject, placing emphasis on practical applicability over theory, and covers both fixed and rotating equipment, as well as pressure vessels. It is an ideal guide for readers with diverse experience, ranging from undergraduate students to mechanics and professional engineers.

Analysis of Pile Foundations Subject to Static and Dynamic Loading CRC Press

Includes the Committee's Technical reports no. 1-1058, reprinted in v. 1-37.

Connections in Steel Structures Johns Hopkins University Press+ORM

Classic text analyzes trajectories of aircraft, missiles, satellites, and spaceships in terms of gravitational forces, aerodynamic forces, and thrust. Topics include general principles of kinematics, dynamics, aerodynamics, propulsion; quasi-steady and non-steady flight; and applications. 1962 edition.

Supersonic Lift and Pitiching Moment in Thin Sweptback Tapered Wings Produced by Constant Vertical Acceleration World Scientific

In this book, the authors give an up-to-date account of thermoluminescence (TL) and other thermally stimulated phenomena. Although most recent experimental results of TL in different materials are described in some detail, the main emphasis in the present book is on general processes, and the approach is more theoretical. Thus the details of the possible processes which can take place during the excitation of the sample, and during its heating, are carefully analysed. The methods for analysing TL glow curves are critically discussed, and recommendations as to their application are made. Also discussed is the expected behavior of these phenomena as functions of the experimental parameters, for example, dose of excitation. The consequences of the main applications of TL (for example, radiation dosimetry) are also discussed in detail as are the similarities and dissimilarities of other thermally stimulated phenomena, and the simultaneous measurements of the latter and TL.