

## Causes Of Dam Failures Nptel

TEXTBOOK OF FINITE ELEMENT ANALYSIS  
 Irrigation Engineering And Hydraulic Structures  
 Brazilian Beach Systems  
 ASM handbook  
 Self-healing Materials  
 Air Pollution Control Engineering  
 Flood Emergency Plans  
 IRRIGATION WATER MANAGEMENT  
 Ground Water Assessment, Development, and Management  
 HEC-6  
 Shape Memory Polymers  
 Proceedings of 3rd International Sustainable Buildings Symposium (ISBS 2017)  
 Irrigation and Water Power Engineering  
 Water Resources Engineering  
 Design of Small Dams  
 The Tribology Handbook  
 Guidelines on the Consequence Categories for Dams  
 Dispersive Clays, Related Pipings and Erosion in Geotechnical Projects  
 Inspection and Measurement in Manufacturing  
 Principles of Object-Oriented Modeling and Simulation with Modelica 2.1  
 Ground Improvement  
 ICRRM 2019 – System Reliability, Quality Control, Safety, Maintenance and Management  
 Mindshift  
 Food Process Engineering and Technology  
 Fundamentals of Reservoir Engineering  
 Building Materials in Civil Engineering  
 Environmental Hydraulics for Open Channel Flows  
 Design, Construction, and Maintenance of Relief Wells  
 Life Of Galileo  
 Physics and Applications of Secondary Electron Emission  
 Geotechnical Instrumentation for Monitoring Field Performance  
 Extra High Voltage AC Transmission Engineering  
 Problematic Soils and Geoenvironmental Concerns  
 Geotechnical Characterization and Modelling  
 Design of Gravity Dams  
 Hydraulics of Bridge Waterways  
 Irrigation and Water Resources Engineering  
 Earth and Earth-rock Dams  
 Handbook of Hydraulic Resistance  
 A TEXTBOOK OF CHEMICAL ENGINEERING THERMODYNAMICS

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### STARK DUNCAN

[TEXTBOOK OF FINITE ELEMENT ANALYSIS](#) Springer Science & Business Media

The renowned reference work is a practical guide to the selection and design of the components of machines and to their lubrication. It has been completely revised for this second edition by leading experts in the area.

[Irrigation Engineering And Hydraulic Structures](#) Elsevier

For the experienced manufacturing professional, the book offers a review of inspection and measurement concepts, and some new insights into the subject. For those new to inspection and measurement, the text will help them grasp the technology involved and the methods for effectively planning applications.

[Brazilian Beach Systems](#) New Age International

The handbook has been composed on the basis of processing, systematization and classification of the results of a great number of investigations published at different time. The essential part of the book is the outcome of investigations carried out by the author. The present edition of this handbook should assist in increasing the quality and efficiency of the design and usage of industrial power engineering and other constructions and

also of the devices and apparatus through which liquids and gases move.

**ASM handbook** Elsevier

"This book is fast becoming the standard text in its field", wrote a reviewer in the Journal of Canadian Petroleum Technology soon after the first appearance of Dake's book. This prediction quickly came true: it has become the standard text and has been reprinted many times. The author's aim - to provide students and teachers with a coherent account of the basic physics of reservoir engineering - has been most successfully achieved. No prior knowledge of reservoir engineering is necessary. The material is dealt with in a concise, unified and applied manner, and only the simplest and most straightforward mathematical techniques are used. This low-priced paperback edition will continue to be an invaluable teaching aid for years to come.

**Self-healing Materials** PHI Learning Pvt. Ltd.

This book is about the more than 4,000 beach systems that form most of the 9000 km long Brazilian coast. It focuses on the beaches of each of the seventeen coastal states and three oceanic islands, their nature, morphodynamics and status. It is a must for anyone who wants to know more about this great coast and its beach systems. This is the first book ever written about the beach systems of Brazil, and actually the very first about the beaches of an entire country. The Brazilian coast extends from the mighty Amazon River and its muddy shores in the north to one of the world's longest sandy beaches in the southern Rio Grande do Sul. It contains every beach type from wave to tide-dominated which range in size from small

embayed beaches to long barrier beaches. The book is written by leading Brazilian academics and researchers and aims at the university level market, as well as coastal scientists, engineers and managers. Standard scientific terminology is used to describe the coast and its beaches. It is illustrated with more than 400 original figures and serves as a benchmark text on the Brazilian coast.

*Air Pollution Control Engineering* Bloomsbury Publishing

A comprehensive, self-sufficient and up-to-date text providing complete information on various aspects of groundwater assessment, development and management. It gives a balanced presentation of theory and field practice using a multidisciplinary approach to aid in solving problems from a variety of data bases. The coverage in this book includes: Aquifer tests and evaluation of aquifer properties Stream gauging and measurement of discharge and stage of wells Ground water exploration Geomorphic and geologic control on ground water Estimation of individual components of ground water recharge, discharge and ground water balance Ground water development and management. The book contains a large number of figures, examples of complex interpretative techniques and methodologies, case histories, and problems along with answers. With its integrated, multidisciplinary approach, the book would serve as a valuable reference book to hydrogeologists, geologists, geophysicists, hydrologists, hydrometeorologists, and irrigation, agricultural and drilling engineers, as well as those concerned with planning and decision making. Researchers and students would also find this an indispensable text.

*Flood Emergency Plans* Elsevier

Environmental engineers continue to rely on the leading resource in the field on the principles and practice of water resources engineering. The second edition now provides them with the most up-to-date information along with a remarkable range and depth of coverage. Two new chapters have been added that explore water resources sustainability and water resources management for sustainability. New and updated graphics have also been integrated throughout the chapters to reinforce important concepts. Additional end-of-chapter questions have been added as well to build understanding. Environmental engineers will refer to this text throughout their careers.

*IRRIGATION WATER MANAGEMENT* PHI Learning Pvt. Ltd.

This book describes the latest advances, innovations, and applications in the field of building design, environmental engineering and sustainability as presented by leading international researchers, engineers, architects and urban planners at the 3rd International Sustainable Buildings Symposium (ISBS), held in Dubai, UAE from 15 to 17 March 2017. It covers highly diverse topics, including smart cities, sustainable building and construction design, sustainable urban planning, infrastructure development, structural resilience under natural hazards, water and waste management, energy efficiency, climate change impacts, life cycle assessment, environmental policies, and strengthening and rehabilitation of structures. The contributions amply demonstrate that sustainable building design is key to protecting and preserving natural resources, economic growth, cultural heritage and public health. The contributions were selected by means of a rigorous peer-review process and highlight many exciting ideas that will spur novel research directions and foster multidisciplinary collaboration among different specialists.

**Ground Water Assessment, Development, and Management** John Wiley & Sons

The Book Irrigation And Water Resources Engineering Deals With The Fundamental And General Aspects Of Irrigation And Water Resources Engineering And Includes Recent Developments In Hydraulic Engineering Related To Irrigation And Water Resources Engineering. Significant Inclusions In The Book Are A Chapter On Management (Including Operation, Maintenance, And Evaluation) Of Canal Irrigation In India, Detailed Environmental Aspects For Water Resource Projects, A Note On Interlinking Of Rivers In India, And Design Problems Of Hydraulic Structures Such As Guide Bunds, Settling Basins Etc.The First Chapter Of The Book Introduces Irrigation And Deals With The Need, Development And Environmental Aspects Of Irrigation In India. The Second Chapter On Hydrology Deals With Different Aspects Of Surface Water Resource. Soil-Water Relationships Have Been Dealt With In Chapter 3. Aspects Related To Ground Water Resource Have Been Discussed In Chapter 4. Canal Irrigation And Its Management Aspects Form The Subject Matter Of Chapters 5 And 6. Behaviour Of Alluvial Channels And Design Of Stable Channels Have Been Included In Chapters 7 And 8, Respectively. Concepts Of Surface And Subsurface Flows, As Applicable To Hydraulic Structures, Have Been Introduced In Chapter 9. Different Types Of Canal Structures Have Been Discussed In Chapters 10, 11, And 13. Chapter 12 Has Been Devoted To Rivers And River Training Methods. After Introducing Planning Aspects Of Water Resource Projects In Chapter 14, Embankment Dams, Gravity Dams And Spillways Have Been Dealt With, Respectively, In Chapters 15, 16 And 17.The Students Would Find Solved Examples (Including Design Problems) In The Text, And Unsolved Exercises And The List Of References Given At The End Of Each Chapter Useful.

*HEC-6* Springer Nature

Designed for a one-semester course in Finite Element Method, this compact and well-organized text presents FEM as a tool to find approximate solutions to differential equations. This provides the student a better perspective on the technique and its wide range of applications. This approach reflects the current trend as the present-day applications range from structures to biomechanics to electromagnetics, unlike in conventional texts that view FEM primarily as an extension of matrix methods of structural analysis. After an introduction and a review of mathematical preliminaries, the book gives a detailed discussion on FEM as a technique for solving differential equations and variational formulation of FEM. This is followed by a lucid presentation of one-dimensional and two-dimensional finite elements and finite element formulation for dynamics. The book concludes with some case studies that focus on industrial problems and Appendices that include mini-project topics based on near-real-life problems. Postgraduate/Senior undergraduate students of civil, mechanical and aeronautical engineering will find this text extremely useful; it will also appeal to the practising engineers and the teaching community.

*Shape Memory Polymers* Academic Press

This volume comprises select papers presented during the Indian Geotechnical Conference 2018. This volume focuses on discussing the many challenges encountered in geoenvironmental engineering. The book covers sustainability aspects related to geotechnical engineering, problematic soils and ground improvement, use of geosynthetics and concepts of soil dynamics. The contents of this book will be useful to researchers and professionals working in geo-environmental engineering and to policy makers interested in understanding geotechnical concerns related to sustainable development.

*Proceedings of 3rd International Sustainable Buildings Symposium (ISBS 2017)* Springer

Provides an introduction to modern object-oriented design principles and applications for the fast-growing area of modeling and simulation Covers the topic of multi-domain system modeling and design with applications that have components from several areas Serves as a reference for the Modelica language as well as a comprehensive overview of application model libraries for a number of application domains

**Irrigation and Water Power Engineering** Springer

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.

*Water Resources Engineering* Smithers Rapra

Designed as an undergraduate-level textbook in Chemical Engineering, this student-friendly, thoroughly class-room tested book, now in its second edition, continues to provide an in-depth analysis of chemical engineering thermodynamics. The book has been so organized that it gives comprehensive coverage of basic concepts and applications of the laws of thermodynamics in the initial chapters, while the later chapters focus at length on important areas of study falling under the realm of chemical thermodynamics. The reader is thus introduced to a thorough analysis of the fundamental laws of thermodynamics as well as their applications to practical situations. This is followed by a detailed discussion on relationships among thermodynamic properties and an exhaustive treatment on the thermodynamic properties of solutions. The role of phase equilibrium thermodynamics in design, analysis, and operation of chemical separation methods is also deftly dealt with. Finally, the chemical reaction equilibria are skillfully explained. Besides numerous illustrations, the book contains over 200 worked examples, over 400 exercise problems (all with answers) and several objective-type questions, which enable students to gain an in-depth understanding of the concepts and theory discussed. The book will also be a useful text for students pursuing courses in chemical engineering-related branches such as polymer engineering, petroleum engineering, and safety and environmental engineering. New to This Edition • More Example Problems and Exercise Questions in each chapter • Updated section on Vapour-Liquid Equilibrium in Chapter 8 to highlight the significance of equations of state approach • GATE Questions up to 2012 with answers

*Design of Small Dams* Penguin

Physics and Applications of Secondary Electron Emission provides a survey of the physics and applications of secondary electron emission. It is part of a series of monographs that aim to report on research carried out in electronics and applied physics. The monographs are written by specialists in their own subjects. Wherever it is practical the monographs will be kept short in length to enable all those interested in electronics to find the essentials necessary for their work in a condensed and concentrated form. The book begins with a discussion of secondary electrons. Separate chapters cover methods for measuring secondary electron emission; numerical results on the secondary electron emission yield of both metals and metal compounds; the influence of externally adsorbed foreign atoms and ions on secondary electron emission; and the mechanism of secondary electron emission. The final three chapters deal with the application side. These include the applications of electron multiplication; the elimination of disturbing effects due to secondary electrons; and "storage" devices in which information on electrical charges is written on an insulating surface, often by making use of secondary electron emission.

*The Tribology Handbook* Elsevier

"Design, construction, and maintenance of pressure relief wells installed for the purpose of relieving subsurface hydrostatic pressures which may develop within the pervious foundations of dams, levees, and hydraulic structures."--Intro.

**Guidelines on the Consequence Categories for Dams** Society of Manufacturing Engineers

Environmental Hydraulics is a new text for students and professionals studying advanced topics in river and estuarine systems. The book contains the full range of subjects on open channel flows, including mixing and dispersion, Saint-Venant equations method of characteristics and interactions between flowing water and its surroundings (air entrainment, sediment transport).Following the approach of Hubert Chanson's highly successful undergraduate textbook Hydraulics of Open Channel Flow, the reader is guided step-by-step from the basic principles to more advanced practical applications. Each section of the book contains many revision exercises, problems and assignments to help the reader test their learning in practical situations.·Complete text on river and estuarine systems in a single volume·Step-by-step guide to practical applications·Many worked examples and exercises

*Dispersive Clays, Related Pipings and Erosion in Geotechnical Projects* John Wiley & Sons

The construction of buildings and structures relies on having a thorough understanding of building materials. Without this knowledge it would not be possible to build safe, efficient and long-lasting buildings, structures and dwellings. Building materials in civil engineering provides an overview of the complete range of building materials available to civil engineers and all those involved in the building and construction industries.The book begins with an introductory chapter describing the basic properties of building materials. Further chapters cover the basic properties of building materials, air hardening cement materials, cement, concrete, building mortar, wall and roof materials, construction steel, wood, waterproof materials, building plastics, heat-insulating materials and sound-absorbing materials and finishing materials. Each chapter includes a series of questions, allowing readers to test the knowledge they have gained. A detailed appendix gives information on the testing of building materials.With its distinguished editor and eminent editorial committee, Building materials in civil engineering is a standard introductory reference book on the complete range of building materials. It is aimed at students of civil engineering, construction engineering and allied courses including water supply and drainage

engineering. It also serves as a source of essential background information for engineers and professionals in the civil engineering and construction sector. - Provides an overview of the complete range of building materials available to civil engineers and all those involved in the building and construction industries - Explores the basic properties of building materials featuring air hardening cement materials, wall and roof materials and sound-absorbing materials - Each chapter includes a series of questions, allowing readers to test the knowledge they have gained

**Inspection and Measurement in Manufacturing** John Wiley & Sons

The book covers self-healing concepts for all important material classes and their applications: polymers, ceramics, non-metallic and metallic coatings, alloys, nanocomposites, concretes and cements, as well as ionomers. Beginning with the inspiration from biological self-healing, its mimickry and conceptual transfer into approaches for the self-repair of artificially created materials, this book explains the strategies and

mechanisms for the readers' basic understanding, then covers the different material classes and suitable self-healing concepts, giving examples for their application in practical situations. As the first book in this swiftly growing research field, it is of great interest to readers from many scientific and engineering disciplines, such as physics and chemistry, civil, architectural, mechanical, electronics and aerospace engineering.

**Principles of Object-Oriented Modeling and Simulation with Modelica 2.1** New Academic Science Limited

This volume comprises select papers presented during the Indian Geotechnical Conference 2018, discussing issues and challenges relating to the characterization of geomaterials, modelling approaches, and geotechnical engineering education. With a combination of field studies, laboratory experiments and modelling approaches, the chapters in this volume address some of the most widely investigated geotechnical engineering topics. This volume will be of interest to researchers and practitioners alike.

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