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Scientific and Technical Aerospace Reports 1978 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Recent Advances in Civil Engineering Pala Gireesh Kumar 2022-05-13 The book presents the select proceedings of the 2nd International Conference on Sustainable Construction Technologies and Advancements in Civil Engineering (ScTACE 2021). This book discusses the latest developments and contributions towards sustainable construction technologies and advances in civil engineering. Various topics covered in this book are construction technologies, geotechnical engineering, transportation and traffic engineering, structural engineering, environmental engineering, remote sensing and GIS, geo-environmental engineering, water resources engineering and earthquake engineering. This book will be useful for students, researchers and professionals working in the area of civil engineering.

Basic Civil Engineering Sathesh Gopi 2009-09 Basic Civil Engineering is designed to enrich the preliminary conceptual knowledge about civil engineering to the students of non-civil branches of engineering. The coverage includes materials for construction, building construction, basic surveying and other major topics like environmental engineering, geotechnical engineering, transport traffic and urban engineering, irrigation & water supply engineering and CAD.

The Indian Ocean Tsunami Tad S. Murty 2006-12-14 The Indian Ocean tsunami of December 2004 is considered to have been one of the worst natural disasters in history, affecting twelve countries, from Indonesia to Somalia. 175,000 people are believed to have lost their lives, almost 50,000 were registered as missing and 1.7 million people were displaced. As well as this horrendous toll on human life

Sustainability Trends and Challenges in Civil Engineering Lakshman Nandagiri 2021-09-02 This book presents the select proceedings of the International Conference on Civil Engineering Trends and Challenges for Sustainability (CTCS 2020). The chapters discuss emerging and latest research and advances in sustainability in different areas of civil engineering, which aim to provide solutions to sustainable development. The contents are broadly divided into the following categories: construction technology and building materials, structural engineering, transportation and geotechnical engineering, environmental and water resources engineering, and RS-GIS applications. This book will be of potential interest to beginners, researchers, and professionals working in the area of sustainable civil engineering and related fields.

The National Cyclopaedia of American Biography 1906 Includes cumulative subject index of the entire set 1 v.

Indian Engineering 1923


Determinants of Construction Project Success in India Kumar Neeraj Jha 2014-07-08 This study presents exploratory work and seeks to identify and evaluate the success and failure factors that could form a guideline for further study and to some extent help professionals to understand some critical aspects that impact project performance concerning construction in India. A total of 55 attributes affecting the performance of construction projects are analysed in terms of their level of influence on four key performance criteria – schedule, cost, quality, and no disputes – using a two-stage questionnaire survey. These attributes are then further analysed, interpreted and evaluated. Based on the critical success factors obtained from the study, a neural network model-based predictive model for project performance has been developed. The performance prediction models have been derived for all four project performance criteria. Further, a hypothesis that ‘project success’ is influenced by ‘success traits’ has also been formulated. The hypothesized positive inter-relationships between success traits and project success have been tested using the structural equation modelling technique. Besides supporting the intuition of past researchers in recognizing ‘coordination’ as a key success factor, this study has revealed that coordination is not an isolated and independent activity, but is a typical management function with an inherent role in all major management activities. Key elements affecting coordination have also been identified and their influence on coordination effort has been studied. Furthermore, the present study has also identified three broad skill groups required of effective project coordinators. The results are validated through case studies of live projects and structured interviews with experts in the field of construction management.


An Introduction to Geosynthetic Engineering Sanjay Kumar Shukla 2017-07-12 The development of the use of polymeric materials in the form of geosynthetics has brought about major changes in the civil engineering industry. Geosynthetics are available in a wide range of compositions appropriate to different applications and environments. Over the past three to four decades, civil engineers have grown increasingly
Practical Civil Engineering

This book systematically explains the basic principles and techniques involved in the design of reinforced concrete structures. It exhaustively covers the first course on the subject at B.E./B.Tech level. Important features include: - Exposition is based on the latest Indian Standard Code: IS 456-2000. - Limit State Method is emphasized throughout. - Working Stress Method is also explained. - Detailed aspects of reinforcement highlighted. - Incorporates earthquake-resistant design. - Includes a large number of solved examples, practice problems, and illustrations. The book would serve as a comprehensive text for undergraduate civil engineering students. Practicing engineers would also find it a valuable reference source.

Bridge Superstructure

N. Rajagopal 2006 Bridge superstructure deals with the behaviour of different types of bridge decks under different systems of loading. Mathematical modeling and the behaviour of different types of bridge decks are clearly explained. Solid slab, voided slab and skew slab bridge decks are detailed out for analysis and design. Box girder bridges are specially discussed for better understanding of its behaviour and its design. Special points relating to creep and shrinkage effects in continuous bridge decks are explained. Bridge bearings, expansion joints, and appurtenances of different types are explained with respect to their place of use and their functions. A few methods of erection of bridge decks of simply supported spans or continuous spans are presented to give a good understanding of such possibilities.

Civil Engineering Solutions

Prem Vardhan 2016-02-06 Engineering, Medical, Chartered Accounting and Law are a few professions that are considered to be good for one's status, salary and other perquisites. But, just managing one's admission into professional institutions does not make a person successful professionally. This book has eleven levels. The first five levels explain what engineering is and how one can become a successful professional, for which parents and teachers should contribute significantly. The last five levels take a civil engineer working on projects like roads, bridges, dams, seaports, airports, industrial and residential buildings etc. on an innovative and interesting professional journey. It explains in minute detail, with examples of possible challenges and solutions for them, covering as many tasks as possible. The construction of major projects has been explained in simple language that best suits a classroom setting.

Civil Engineering

P.K. Jayasree 2021-05-03 The book provides primary information about civil engineering to both a civil and non-civil engineering audience in areas such as construction management, estate management, and building. Basic civil engineering topics like surveying, building materials, construction technology and management, concrete technology, steel structures, soil mechanics and foundations, water resources, transportation, and environment engineering are explained in detail. Codel provisions of US, UK, and India are included to cater to a global audience. Insights into techniques like modern surveying equipment and technologies, sustainable construction materials, and modern construction materials are also included. Key features: - Provides a concise presentation of theory and practice for all technical in civil engineering. - Contains detailed theory with lucid illustrations. - Focuses on the management aspects of a civil engineer's job. - Addresses contemporary issues such as permitting, globalization, sustainability, and emerging technologies. - Includes codal provisions of US, UK and India. The book is aimed at professionals and senior undergraduate students in civil engineering, non-specialist civil engineering audience.
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.

**Fundamentals of Fibre-Reinforced Soil Engineering** Sanjay Kumar Shukla 2017-01-16 This book is intended to serve as a one-stop reference on fibre-reinforced soils. Over the past 30-35 years, the engineering behaviour of randomly distributed/oriented fibre-reinforced soil, also called simply fibre-reinforced soil, has been investigated in detail by researchers and engineers worldwide. Waste fibres (plastic waste fibres, old tyre fibres, etc.) create disposal and environmental problems. Utilization of such fibres in construction can help resolve these concerns. Research studies and some field applications have shown that the fibres can be utilized in large quantities in geotechnical and civil engineering applications in a cost-effective and environmentally friendly manner. This book covers a complete description of fibres, their effects when included with a soil matrix, and their use in soil reinforcement, and the result of their field applications. It gives a detailed view of fibre-reinforced soil engineering. The book will be useful to students, professional, and researchers alike, and can also serve as a text for graduate coursework and professional development programs.

**Subject-index of the Books in the Author Catalogues for the Years 1869-1895** Public Library of New South Wales. Reference Dept 1903 Engineering Mechanics Statics And Dynamis 5 Rajasekaran 2009-11-01 Explains the fundamental concepts and principles underlying the subject, illustrates the application of numerical methods to solve engineering problems, and introduces students to the use of computer applications to solve problems. A continuous step-by-step build up of the subject makes the book very student-friendly. All topics and sequentially coherent subtopics are carefully organized and explained distinctly within each chapter. An abundance of solved examples is provided to illustrate all phases of the topic under consideration. All chapters include several spreadsheet problems for modeling of physical phenomena, which enable the student to obtain graphical representations of physical quantities and perform numerical analysis of problems without recourse to a high-level computer language. Adequately equipped with numerous solved problems and exercises, this book provides sufficient material for a two-semester course. The book is essentially designed for all engineering students. It would also serve as a ready reference for practicing engineers and for those preparing for competitive examinations. It includes previous years’ question papers and their solutions.

**Digital Mapping of Soil Landscape Parameters** Pradeep Kumar Garg 2020-02-20 This book addresses the mapping of soil-landscape parameters in the geospatial domain. It begins by discussing the fundamental concepts, and then explains how machine learning and geomatics can be applied for more efficient mapping and to improve our understanding and management of ‘soil’. The judicious utilization of a piece of land is one of the biggest and most important current challenges, especially in light of the rapid global urbanization, which requires continuous monitoring of resource consumption. The book provides a clear overview of how machine learning can be used to analyze remote sensing data to monitor the key parameters, below, at, and above the surface. It not only offers insights into the approaches, but also allows readers to learn about the challenges and issues associated with the digital mapping of these parameters and to gain a better understanding of the selection of data to represent soil-landscape relationships as well as the complex and interconnected links between soil-landscape parameters under a range of soil and climatic conditions. Lastly, the book sheds light on the use of machine learning and, building on the previous chapter, provides solutions toward smart farming and smart land management.

**Advances in Indian Earthquake Engineering and Seismology** M. L. Sharma 2018-06-22 This edited volume is an up-to-date guide for students, policy makers and engineers on earthquake engineering, including methods and technologies for seismic hazard detection and mitigation. The book was written in honour of the late Professor Jai Krishna, who was a pioneer in teaching and research in the field of earthquake engineering in India during his decades-long work at the University of Roorkee (now the Indian Institute of Technology Roorkee). The book comprehensively covers the historical development of earthquake engineering in India, and uses this background knowledge to address the need for current advances in earthquake engineering, especially in developing countries. After discussing the history and growth of earthquake engineering in India from the past 50 years, the book addresses the present status of earthquake engineering in regards to the seismic resistant designs of bridges, buildings, railways, and other infrastructures. Specific topics include response spectrum superposition methods, design philosophy, system identification approaches, retaining walls, and shallow foundations. Readers will learn about developments in earthquake engineering over the past 50 years, and how new methods and technologies can be applied towards seismic risk and hazard identification and mitigation.

**New Materials in Civil Engineering** Pijush Samui 2020-07-07 New Materials in Civil Engineering provides engineers and scientists with the tools and methods needed to meet the challenge of designing and constructing more resilient and sustainable infrastructures. This book is a valuable guide to the properties, selection criteria, products, applications, lifecycle and recyclability of advanced materials. It presents an A-to-Z approach to all types of materials, highlighting their key performance properties, principal characteristics and applications. Traditional materials covered include concrete, soil, steel, timber, fly ash, geosynthetic, fiber-reinforced concrete, smart materials, carbon fiber and reinforced polymers. In addition, the book covers nanotechnology and biotechnology, in the development of new materials. Covers a variety of materials, including fly ash, geosynthetic, fiber-reinforced concrete, smart materials, carbon fiber reinforced polymer and waste materials Provides a “one-stop resource of information for the latest materials and practical applications. Includes a variety of different use case studies.

**An Autumn Tour in the United States and Canada** Julius George Medley 1873 Civil Engineering Materials M. Rashad Islam 2020-04-09 Civil Engineering Materials: Introduction and Laboratory Testing discusses the properties, characterization procedures, and analysis techniques of primary civil engineering materials. It presents the latest design considerations and uses of engineering materials as well as theories for fully understanding them through numerous worked mathematical examples. The book also includes important laboratory tests which are clearly described in a step-by-step manner and further illustrated by high-quality figures. Also, analysis equations and their applications are presented with appropriate examples and relevant practice problems, including Fundamentals of Engineering (FE) styled questions as well those found on the American Concrete Institute (ACI) Concrete Field Testing Technician - Grade I certification exam. Features: Includes numerous worked examples to illustrate the theories presented Presents Fundamentals of Engineering (FE) examination sample questions in each chapter Reviews the ACI Concrete Field Testing Technician - Grade I certification exam Utilizes the latest laboratory testing equipment and procedures Includes additional resources for instructors teaching related courses This book is intended for students in civil engineering, construction engineering, civil engineering technology, construction management engineering technology, and construction management programs.

**SSC Junior Engineers Civil Engineering Paper 1** Arihant Experts
2019-07-22 Staff Selection Commission (SSC) is one of the prestigious organisations of Government of India known widely for recruiting potential candidates for various posts at various subordinate offices. "SSC Junior Engineer CPWD/MES Civil Engineering" for Paper I Computer-based test (CBT) 2019 is a revised edition to provide students an updated version of study material following the latest examination pattern for this examination. It is divided into three parts covering General Intelligence and Reasoning, General Awareness, and Civil along with their chapters equipped with complete theories. Each chapter consists of sufficient number of MCQs for harnessing the conceptual clarity. It has 3 solved papers of 2015, 2017 and 2018 with detailed solutions. It also provides mock test for self-practice. Enclosed with such effective set of study material, it is hoped that it will ensure success in this upcoming examination. TOC Solved Paper 2018, Solved Paper 2017, Solved Paper 2015, PART A - General Intelligence & Reasoning, PART B - General Awareness, PART C - Civil, Mock Test

Rock Mechanics Nagaratnam Sivakugan 2013-01-18 Rock mechanics is a multidisciplinary subject combining geology, geophysics, and engineering and applying the principles of mechanics to study the engineering behavior of the rock mass. With wide application, a solid grasp of this topic is invaluable to anyone studying or working in civil, mining, petroleum, and geological engineering. Rock Mechani

Handbook of Civil Engineering Praveen Dwivedi 2019-09-25 The last leg of all technical competitive exams including GATE, ESE and PSUs require brushing of concepts and quick revisions. However, with bulky books, the same is not possible. You can and probably have already missed key formulae and ended up with not-so-good results. To make your life easy, GKP has come up with Handbook series for Mechanical Engineering, Civil Engineering, Electrical Engineering, Computer Science Engineering and Electronics and Communications Engineering. Our Handbook for Civil Engineering serves as a quick reference guide to brush up key concepts. It also helps you revise the entire syllabus quickly in limited time. Civil engineering is a sought after branch in major PSUs and several students write its paper annually. We hope that the book is immensely useful for students aiming to clear competitive examinations and for students looking for exam preparation material to revise various concepts. Key features of the book include: a. Last minute prep aspects b. Formulae with conceptual clarity c. Definitions and equations with explanatory notes.

Multi-scale Spectral Analysis in Hydrology Adarsh S 2021-03-01 Accurate prediction of hydrological variables is essential for efficient water resources planning and management. Proper understanding of the characteristics of the time series may help in improving the simulation and forecasting accuracy of hydrological variables. This book presents a detailed description and application of multiscale time-frequency characterization tool for the spectral analysis of hydrological time series. It presents spectral analysis methods for hydrological applications through a wide variety of illustrative case studies including Wavelet transforms, Hilbert Huang Transform and their extensions.