Civil Engineering S By Indian Authors

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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 accompanying figures and tables. The book also includes 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 examinationizes laboratory testing standards and practices 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.

Practical 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. Criadal 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.

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 current and future improvement of 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 differs significantly from traditional 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 sets for monitoring and planning. Furthermore, it covers well the complex and interconnected links between soil-landscape parameters under a range of soil and climatic conditions. Lastly, the book sheds light on using the network of satellite-based Earth observations to provide solutions toward smart farming and smart land management.

Subject-index of the Books in the Author Catalogues for the Years 1869-1895 Public Library of New South Wales. Reference Catalogues

The Civil Engineer and Architect's Journal 1858-1871

Bridge Superstructure N. Rajagopalan 2006 Bridge Superstructure deals with the behaviour of different types of bridge decks under different systems of loading. The modeling and behavior 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 especially dealt with for both 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 models and uses of their functioning. 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.

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 in the study, a neural network-based predictive model, 'construction performance prediction model', has been developed. The performance prediction models have been derived for all four project performance criteria. Further, a hypothesis that correlation has been made to test the hypothesis of design 'engineered' structures in or on rock. The book will serve as a standard text for undergraduate courses in mining, civil engineering and engineering geology.

Insights and Innovations in Structural Engineering, Mechanics and Computation Alphose Zingoni 2016-11-25 Insights and Innovations in Structural Engineering, Mechanics and Computation comprises 360 papers that were presented at the Sixth International Conference on Structural Engineering, Mechanics and Computation (SEMC 2016, Cape Town, South Africa, 5-7 September 2016). The papers reflect the broad scope of the SEMC conferences, and cover a wide range of engineering structures (buildings, bridges, towers, roofs, foundations, offshore structures, tunnels, dams, vessels, vehicles and machinery) and engineering materials (steel, aluminium, concrete, timber, glass, polymers, composites, laminates, smart materials). Some contributions present the latest insights and new understanding on (i) the mechanics of structures and systems (e.g., dynamics, influence of boundary conditions, shafts) and have also been formulated. The hypothesis positive inter-relationships between success traits and project success have been tested using the structural equation modelling technique. Besides supporting the intuition of past research, this study identified (i) 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 influence on the four major criteria. 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.

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Computation is particularly of interest to civil, structural, mechanical, marine, and aerospace engineers. Readers, researchers, practitioners, and academics in these disciplines will find the content useful. Short versions of the papers, intended to be concise but self-contained summaries of the full papers, are collected in the book, while the full versions of the papers are on the accompanying CD.


Civil Engineering Solutions Prashanlal Varde 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 objective of this book is to help students of engineering in and how one can become a successful professional, for which parents and teachers should contribute significantly. The rest of the book takes a civil engineer working on projects like roads, bridges, dams, ports, 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.

New Materials in Civil Engineering Pijush Samui 2020-07-07 New Materials in Civil Engineering provides engineers and science students looking for exam preparation material to revise various concepts and quick revisions of the Government of India. 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 for Mechanical, 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 to prepare for the latest material presented, ensuring a blend of theory and practical case studies to help readers better comprehend the principle of sustainability and its application.

Allen’s India Handbook for British and foreign India 1872

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 a handbook for Mechanical, 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 to prepare for the latest material presented, ensuring a blend of theory and practical case studies to help readers better comprehend the principle of sustainability and its application.

Geo Environmental Design Practice in Fly Ash Disposal & Utilization Umesh Dayal 2005 SSC Junior Engineers Civil Engineering Paper 1 Arhati Deepak 2017 D Y Patil Staff Selection Commission (SSC) is one of the prestigious organizations of the 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 Committee carried out (CGST) 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, Mechanical, & Electrical Engineering. 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 provides instructors and students with a handy reference. 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,
Design Of Steel Structures (By Limit State Method As Per IS: 800 2007) S.S. Bhavikatti 2009-01-01 So far working stress method was used for the design of steel structures. Nowadays whole world is going for the limit state method which is more rational. Indian national code IS:800 for the design of steel structures was revised in the year 2007 incorporating limit state method. This book is aimed at training the students in the design procedure with a large number of problems. It is hoped that all universities will soon adopt design of steel structures as per IS: 2007 and this book will serve as a good textbook.

Reliability and Risk Analysis in Engineering and Medicine Chandrasekhar Putcha Fundamentals of Fibre-Reinforced Soil Engineering Sanjay Kumar Shukla 2017-01-01 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 within a soil or other similar materials such as the fly ash, and 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.

Sustainability Trends and Challenges in Civil Engineering Lakshman Nandagiri 2021-09-02 This book presents the 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.