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Engineering Rock Mass Classification R K Goel 2011-08-09 Rock mass classification methods are commonly used at the preliminary design stages of a construction project when there is very little information. It forms the bases for design and estimation of the required amount and type of rock support and groundwater control measures. Encompassing nearly all aspects of rock mass classifications in detail, Civil Engineering Rock Mass Classification: Tunnelling, Foundations and Landsides provides construction engineers and managers with extensive practical knowledge which is time-tested in the projects in Himalaya and other parts of the world in complex geological conditions. Rock mass classification is an essential element of feasibility studies for any near surface construction project prior to any excavation or disturbances made to earth. Written by an author team with over 50 years of experience in some of the most difficult mining regions of the world, Civil Engineering Rock Mass Classification: Tunnelling, Foundations and Landsides provides construction engineers, construction managers and mining engineers with the tools and methods to gather geotechnical data, either from rock cuts, drifts or core, and process the information for subsequent analysis. The goal is to use effective mapping techniques to obtain data can be used as input for any of the established rock classification systems. The book covers all of the commonly used classification methods including: Barton's Q and Q' systems, Bieniawski's RMR, Laubscher's MRMR and Hoek's and GSI systems. With this book in hand, engineers will be able to gather geotechnical data, either from rock cuts, drifts or core, and process the information for subsequent analysis. Rich with international case studies and worked out equations, the focus of the book is on the practical gathering information for purposes of analysis and design. Identify the most significant parameters influencing the behaviour of a rock mass Divide a particular rock mass formulation into groups of similar behaviour, rock mass classes of varying quality Provide a basis of understanding the characteristics of each rock mass class Relate the experience of rock conditions at one site to the conditions and experience encountered at others Derive quantitative data and guidelines for engineering design Provide common basis for communication between engineers and geologists

Logistics Operations and Management Reza Zanjirani Farahani 2011 This book provides a comprehensive overview of how to strategically manage the movement and storage of products or materials from any point in the manufacturing process to customer fulfillment. Topics covered include important tools for strategic decision making, transport, packaging, warehousing, retailing, customer services and future trends. An introduction to logistics Provides practical applications Discusses trends and new strategies in major parts of the logistic industry

Soil Mechanics and Foundations B. C. Punmia 2005

Engineering Materials (Material Science). S. C. Rangwala 2014

Airport Engineering Norman J. Ashford 1992-02-28 Covers airport planning and design.

Airport Engineering

Highway and Traffic Engineering in Developing Countries B. Thagesen 1995-11-30 This book provides a complete text on highway and traffic engineering for developing countries. It is aimed principally at students and young engineers from the developed world who have responsibility for such work in the third world, but will also be valuable for local highway engineers.

The Girl In Room 105 Chetan Bhagat 2022-07-01 Hi, I'm Keshav, and my life is screwed. I hate my job and my girlfriend left me. Ah, the beautiful Zara. Zara is from Kashmir. She is a Muslim. And did I tell you my family is a bit, well, traditional? Anyway, leave that. Zara and I broke up four years ago. She moved on in life. I didn't. I drank every night to forget her. I called, messaged, and stalked her on social media. She just ignored me. However, that night, on the eve of her birthday, Zara messaged me. She called me over, like old times, to her hostel room 105. I shouldn't have gone, but I did ... and my life changed forever. This is not a love story. It is an un-love story. From the author of Five Point Someone and 2 States, comes a fast-paced, funny and unputdownable thriller about obsessive love and finding purpose in life against the backdrop of contemporary India.

Basic Civil Engineering Dr. B.C. Punmia 2003-05

Hydraulic Structures P. Novak 2017-12-21 Now includes Worked Examples for lecturers in a companion pdf! The fourth edition of this volume presents design principles and practical guidance for key hydraulic structures. Fully revised and updated, this new edition contains enhanced texts and sections on: environmental issues and the World Commission on Dams partially saturated soils, small amenity dams, tailing dams, upstream dam face protection and the rehabilitation of embankment dams RCC dams and the upgrading of masonry and concrete dams flow over stepped spillways and scour in plunge pools cavitation, aeration and vibration of gates risk analysis and contingency planning in dam safety small hydroelectric power development and tidal and wave power wave statistics, pipeline stability, wave-structure interaction and coastal modelling computational models in hydraulic engineering. The book's key topics are explored in two parts - dam engineering and other hydraulic structures - and the text concludes with a chapter on models in hydraulic engineering. Worked numerical examples supplement the main text and extensive lists of references conclude each chapter.

Hydraulic Structures provides advanced students with a solid foundation in the subject and is a useful reference source for researchers, designers and other professionals.

Tunnel Engineering Handbook Thomas R. Kuesel 2012-12-06 The Tunnel Engineering Handbook, Second Edition provides, in a single convenient volume, comprehensive coverage of the state of the art in the design, construction, and rehabilitation of tunnels. It brings together essential information on all the principal classifications of tunnels, including soft ground, hard rock, immersed tube and cut-and-cover, with comparisons of their relative advantages and suitability. The broad coverage found in the Tunnel Engineering Handbook enables engineers to address such critical questions as how tunnels are planned and laid out, how the design of tunnels depends on site and ground conditions, and which types of tunnels and construction methods are best suited to different conditions. Written by the leading engineers in the fields, this second edition features major revisions from the first, including: * Complete updating of all chapters from the first edition * Seven completely new chapters covering tunnel stabilization and lining, difficult ground, deep shafts, water conveyance tunnels, small diameter tunnels, fire life safety, tunnel rehabilitation and tunnel construction contracting *New coverage of the modern philosophy and techniques of tunnel design and tunnel construction contracting The comprehensive coverage of the Tunnel Engineering Handbook makes it an essential resource for all practicing engineers engaged in the design of tunnels and underground construction. In addition, the book contains a wealth of information that government administrators and planners and transportation officials will use in the planning and management of tunnels.

A Textbook of Strength of Materials R. K. Bansal 2010

Railway Engineering Satish Chandra 2013-02-02 Railway Engineering has been specially designed for undergraduate students of civil engineering. From fundamental topics to modern technological developments, the book covers all aspects of the railways including various modernization plans covering tracks, locomotives, and rolling stock. Important statistical data about the Indian Railways and other useful information have also been incorporated to make the coverage comprehensive. A number of illustrative examples supplement text to aid easy understanding of design methods discussed. The book should also serve the need of students of polytechnics and those appearing of the AMIE examination and would also be a ready reference for railway professionals.

Practical Railway Engineering Clifford F. Bonnett 2005 This textbook covers the very wide spectrum of all aspects of railway engineering for all engineering disciplines, in a 'broad brush' way giving a good overall knowledge of what is involved

in planning, designing, constructing and maintaining a railway. It covers all types of railway systems including light rail and metro as well as main line. The first edition has proved very popular both with students new to railways and with practicing engineers who need to work in this newly expanding area. In the second edition, the illustrations have been improved and brought up to date, particularly with the introduction of 30 colour pages which include many newly taken photographs. The text has been reviewed for present day accuracy and, where necessary, has been modified or expanded to include reference to recent trends or developments. New topics include automatic train control, level crossings, dot matrix indicators, measures for the mobility impaired, reinforced earth structures, air conditioning, etc. Recent railway experience, both technical and political, has also been reflected in the commentary.

Transport Planning and Traffic Engineering Coleman A. O'Flaherty 2018-09-27 'Transport Planning and Traffic Engineering' is a comprehensive textbook on the relevant principles and practice. It includes sections on transport policy and planning, traffic surveys and accident investigation, road design for capacity and safety, and traffic management. Clearly written and illustrated, the book is ideal reading for students of t

Planning and Design of Airports, Fifth Edition Robert Horonjeff 2010-05-06 Authoritative, Up-to-Date Coverage of Airport Planning and Design Fully updated to reflect the significant changes that have occurred in the aviation industry, the new edition of this classic text offers definitive guidance on every aspect of planning, design, engineering, and renovating airports and terminals. Planning and Design of Airports, Fifth Edition, includes complete coverage of the latest aircraft and air traffic management technologies, passenger processing technologies, computer-based analytical and design models, new guidelines for estimating required runway lengths and pavement thicknesses, current Federal Aviation Administration (FAA) and International Civil Aviation Organization (ICAO) standards, and more. Widely recognized as the field's standard text, this time-tested, expertly written reference is the best and most trusted source of information on current practice, techniques, and innovations in airport planning and design. **COVERAGE INCLUDES:** Designing facilities to accommodate a wide variety of aircraft Air traffic management Airport planning studies Forecasting for future demands on airport system components Geometric design of the airfield Structural design of airport pavements Airport lighting, marking, and signage Planning and design of the terminal area Airport security planning Airport airside capacity and delay Finance strategies, including grants, bonds, and private investment Environmental planning Heliports

Airport Engineering Norman J. Ashford 2011-04-06 First published in 1979, Airport Engineering by Ashford and Wright, has become a classic textbook in the education of airport engineers and transportation planners. Over the past twenty years, construction of new airports in the US has waned as construction abroad boomed. This new edition of Airport Engineering will respond to this shift in the growth of airports globally, with a focus on the role of the International Civil Aviation Organization (ICAO), while still providing the best practices and tested fundamentals that have made the book successful for over 30 years.

Bridge Engineering S. C. Rangwala 2009-01-01 The book aims at presenting the topics of Bridge Engineering expressed in simple and lucid language. The presentation is comprehensive and methodical as well as interesting and easy to follow.

Fundamentals of Railway Track Engineering Arnold D. Kerr 2003

HARBOUR, DOCK AND TUNNEL ENGINEERING R. Srinivasan 2009-01-01 This text-book concisely formulates the basic principles of the subject matter in simple language presented in two sections. The Section I - Harbour and Dock Engineering, is well-divided in twelve chapters including chapter on 'Planning and Layout of Ports'. Also the approach of the write-up has been changed according to the form of facilities and requirements of Harbours and Ports. The Section II - Tunnel Engineering, is also well-divided in twelve chapters including newly developed methods like New Austrian Tunnelling Method (NATM), Shield methods and chapters on 'Stages in Tunnel Construction', 'Tunnelling in Water Bearing Soils' and also 'Health Protection in Tunnels' have been incorporated.

Design Of Steel Structures (By Limit State Method As Per Is: 800 2007) S.S. Bhavikatti 2009 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 using IS: 800 2007 for designing steel structures by limit state method. The author has explained the provisions of code in simple language and illustrated 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. A sincere effort has been made to present design procedure using simple language, neat sketches and solved problems.

A Textbook of Transportation Engineering SP Chandola 2008 For Civil Engineering Students of All Indian Universities and Practicing Engineers

Construction Planning, Equipment, and Methods Robert Leroy Peurifoy 1970

Reinforced Concrete James Grierson MacGregor 1997 Based on the 1995 edition of the American Concrete Institute Building Code, this text explains the theory and practice of reinforced concrete design in a systematic and clear fashion, with an abundance of step-by-step worked examples, illustrations, and photographs. The focus is on preparing students to make the many judgment decisions required in reinforced concrete design, and reflects the author's experience as both a teacher of reinforced concrete design and as a member of various code committees. This edition provides new, revised and expanded coverage of the following topics: core testing and durability; shrinkage and creep; bases the maximum steel ratio and the value of the factor on Appendix B of ACI318-95; composite concrete beams; strut-and-tie models; dapped ends and T-beam flanges. It also expands the discussion of STMs and adds new examples in SI units.

12 Practice Sets for RRB Junior Engineer Mechanical & Allied Engineering Stage II Exam with 3 Online Tests Disha Experts 2019-01-30 The book 12 Practice Sets for RRB Junior Engineer Mechanical & Allied Engineering Stage II Exam with 3 Online Tests provides 12 Practice Sets - 9 in the book and 3 Online - on the exact pattern as specified in the latest notification. The book also provides 2014 & 2015 Solved Papers. Each Practice Set contains 150 questions divided into 5 sections: Physics & Chemistry (15), General Awareness (15), Basic Computer Fundamentals (10), Basic Environmental & Pollution Control (10) and Technical Abilities (100). The solution to each Test is provided at the end of the book. This book will really help the students in developing the required Speed and Strike Rate, which can increase their final score by 15% in the final exam.

RAILWAY ENGINEERING S. C. Rangwala 2008-01-01 This well-known text-book now in its Nineteenth Edition, provides an up-to-date account of the basic principles on various functions and working of Railways. Its excellent material fills a significant void in the literature of Railway Engineering.

Civil Engineering (Conventional & Objective Type) R. S. Khurmi 2007

Pavement Analysis and Design Yang Hsien Huang 2004 For one/two-semester, undergraduate/graduate courses in Pavement Design. This up-to-date text covers both theoretical and practical aspects of pavement analysis and design. It includes some of the latest developments in the field, and some very useful computer software-developed by the author-with detailed instructions.

Essentials of Bridge Engineering D. Johnson Victor 1980

Civil Engineering (Objective Types) Dr. P. Jaya Rami Reddy 2007-06-01

India's New Capitalists H. Damodaran 2008-06-25 In order to do business effectively in contemporary South Asia, it is necessary to understand the culture, the ethos, and the region's new trading communities. In tracing the modern-day evolution of business communities in India, this book uses social history to systematically document and understand India's new entrepreneurial groups.

Railway Track Engineering J. S. Mundrey 2017

Multiple Criteria Decision Analysis Valerie Belton 2012-12-06 The field of multiple criteria decision analysis (MCDA), also termed multiple criteria decision aid, or multiple criteria decision making (MCDM), has developed rapidly over the past quarter century and in the process a number of divergent schools of thought have emerged. This can make it difficult for a new entrant into the field to develop a comprehensive appreciation of the range of tools and approaches which are available to assist decision makers in dealing with the ever-present difficulties of seeking compromise or consensus between conflicting interests and goals, i.e. the "multiple criteria". The diversity of philosophies and models makes it equally difficult for potential users of MCDA, i.e. management scientists and/or decision makers facing problems involving conflicting goals, to gain a clear understanding of which methodologies are appropriate to their particular context. Our intention in writing this book has been to provide a comprehensive yet widely accessible overview of the main streams of thought within MCDA. We aim to provide readers with sufficient awareness of the underlying philosophies and theories, understanding of the practical details of the methods, and insight into practice to enable them to implement any of the approaches in an informed manner. As the title of the book indicates, our emphasis is on developing an integrated view of MCDA, which we perceive to incorporate both integration of different schools of thought within MCDA, and integration of MCDA with broader management theory, science and practice.

Highway Engineering S. K. Khanna 1991

Basic Structural Analysis K. U. Muthu 2017-04-30 The third edition of this well-accepted textbook continues in its tradition of presenting the applications of principles, with the addition of a new chapter "Double Integration Method" for a complete treatment on "Analysis of Determinate Structures". This new chapter will make the reader understand the development of deflection analysis. This book caters to the needs of the student who enters the portals of Civil Engineering Department in the second year of UG programs. It will also be useful to understand the basic principles of structural analysis, energy principles, concepts of loads, arches, bridges, beams, analysis of statically determinate structures, and importance of influence line diagrams in analyzing problems on indeterminate beams. Moreover, the book can aid solving of basic structural engineering problems in an easy-to-follow and simple manner, avoiding unnecessary mathematical

gymnastics and, instead, emphasizing on the engineering applications. The book takes an outcome-based learning approach, where the authors ensure that the students engage well with the contents of each chapter and the expected learning outcomes are achieved by them. Realizing the importance for a systematic approach to problem solving, Bloom's Taxonomy has been applied while designing the contents of the book, so that the students systematically learn to remember, understand, analyze, apply, evaluate and create learning. A large number of practical problems from various university and competitive examinations, presented in the book, will help students get a feel of the problems encountered in the real world. These will also help them during taking their own examinations. Updated chapters and inclusion of a new ""Double Integration Method"" extends the scope of the book, making it suitable to postgraduate level courses as well. Every topic is illustrated with a large number of worked out numerical examples. Contains problems from university and competitive examinations. Provides exercises in every chapter in an orderly way for self-study.

Highway Engineering Handbook, 2e Roger Brockenbrough 2003-02-14 * Compiles all the data necessary for efficient and cost-effective highway design, building, rehabilitation, and maintenance * Includes metric units and the latest AASHTO (American Association of State Highway Transportation Officials) design codes

Basic Automobile Engineering Nakra Cp 2009 The book covers the fundamental and theoretical aspects of repair and maintenance and adjustment of automobile equipment and accessories of cars, trucks two-wheelers and three-wheelers. It covers the complete syllabus of diploma certificate in automobile engineering as well as industrial and vocational courses.

Fundamentals of Mathematical Statistics S.C. Gupta 2020-09-10 Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have been made in the syllabi and/or the pattern of examination papers of numerous universities. Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have been made in the syllabi and/or the pattern of examination papers of numerous universities. Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have been made in the syllabi and/or the pattern of examination papers of numerous universities. Some prominent additions are given below: 1. Variance of Degenerate Random Variable 2. Approximate Expression for Expectation and Variance 3. Lyapounov's Inequality 4. Holder's Inequality 5. Minkowski's Inequality 6. Double Expectation Rule or Double-E Rule and many others

International Books in Print 1992

Concrete Pavement Design Guidance Notes Geoffrey Griffiths 2007-04-19 This comprehensive design guide summarizes current developments in the design of concrete pavements. Following an overview of the theory involved, the authors detail optimum design techniques and best practice, with a focus on highway and infrastructure projects. Worked examples and calculations are provided to describe standard design methods, illustrated with numerous case studies. The author provides guidance on how to use each method on particular projects, with reference to UK, European and US standards and codes of practice. Concrete Pavement Design Guidance Notes is an essential handbook for civil engineers, consultants and contractors involved in the design and construction of concrete pavements, and will also be of interest to students of pavement design.