

Canadian Foundation Engineering Manual

4th Edition

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after an examination of fundamental theories as applied to civil engineering authoritative coverage is included on design practice for certain materials and specific structures and applications a particular feature is the incorporation of

chapters on construction and site practice including contract management and control

the mechanisms and behaviour of the scour process is a challenging subject and one which is expertly dealt with in this informative illustrated volume specifically this book addresses issues relating to computing and controlling the scour process near hydraulic structures and pays special attention to the time dependent character of the scour processes and the predictability of scour relations providing information on the latest developments in scouring this text is intended for practising hydraulic engineers

successful coastal and ocean engineering projects rely on practical experience with technical tools and knowledge available to the engineer often problems arise from projects that are too complex for theoretical description which require that engineers exercise sound judgment in addition to reliance on past practical experience this book focuses on the latest technology applied in design and construction effective engineering methodology unique projects and problems design and construction challenges and other lessons learned in addition unique practices in planning design construction maintenance and performance of coastal and ocean projects will be explored

this indispensable handbook provides state of the art information and common sense guidelines covering the design construction modernization of port and harbor related marine structures the design procedures and guidelines address the complex problems and illustrate factors that should be considered and included in appropriate design scenarios

written by a leader on the subject introduction to geotechnical engineering is first introductory geotechnical engineering textbook to cover both saturated and unsaturated soil mechanics destined to become the next leading text in the field this book presents a new approach to teaching the subject based on fundamentals of unsaturated soils and extending the description of applications of soil mechanics to a wide variety of topics this groundbreaking work features a number of topics typically left out of undergraduate geotechnical courses

model uncertainties in foundation design is unique in the compilation of the largest and the most diverse load test databases to date covering many foundation types shallow foundations spudcans driven piles drilled shafts rock sockets and helical piles and a wide range of ground conditions soil to soft rock all databases with names prefixed by nus are available upon request this book presents a comprehensive evaluation of the model factor mean bias and coefficient of variation cov for ultimate and serviceability limit state based on

these databases these statistics can be used directly for aashto lrfd calibration besides load test databases performance databases for other geo structures and their model factor statistics are provided based on this extensive literature survey a practical three tier scheme for classifying the model uncertainty of geo structures according to the model factor mean and cov is proposed this empirically grounded scheme can underpin the calibration of resistance factors as a function of the degree of understanding a concept already adopted in the canadian highway bridge design code and being considered for the new draft for eurocode 7 part 1 en 1997 1 202x the helical pile research in chapter 7 was recognised by the 2020 asce norman medal

as long as we have mining and mineral processing tailings and the responsible management thereof will remain at the forefront with a company s environmental social and governance esg performance in part a reflection of how well tailings risks are being managed the global industry standard on tailings management gism was published in august 2020 aiming to prevent catastrophic failure of tailings facilities by providing operators with specified measures and approaches throughout the mine life cycle taking into account multiple stakeholder perspectives in 2021 the international council on mining metals icmm published the tailings management good practice guide intended to support safe responsible management of tailings across the global mining industry providing guidance on good governance and engineering practices to support continual improvement in tailings storage facility tsf management and help foster and strengthen the safety culture of mining companies the tailings management handbook is important and timely because there is no other comprehensive resource rooted in these new fundamentals and global principles for tailings management tailings management requires interdisciplinary and cross functional understanding and support which is apparent throughout this handbook dive into the wealth of information contributed by more than 100 world renowned experts beautifully crafted into a full color handbook that focuses on the basics life cycle planning site and tailings characterization tsf design and construction as well as systems and operations of tsfs the inclusion of 42 case studies is an added plus with real world successes and lessons learned

soft clay engineering and ground improvement covers the design and implementation of ground improvement techniques as applicable to soft clays this particular subject poses major geotechnical challenges in civil engineering not only civil engineers but planners architects consultants and contractors are now aware what soft soils are and the risks associated with development of such areas the book is designed as a reference and useful tool for those in the industry both to consultants and contractors it also benefits researchers and academics working on ground improvement of soft soils and serves as an excellent overview

for postgraduates university lecturers are beginning to incorporate more ground improvement topics into their curricula and this text would be ideal for short courses for practicing engineers it includes several examples to assist a newcomer to carry out preliminary designs the three authors each with dozens of years of experience have witnessed and participated in the rapid evolvement of ground improvement in soft soils in addition top tier professionals who deal with soft clays and ground improvement on a daily basis have contributed providing their expertise in dealing with real world problems and practical solutions

the ground is one of the most highly variable of engineering materials it is therefore not surprising that geotechnical designs depend on local site conditions and local engineering experience engineering practices relating to investigation and design methods site understanding and to safety levels acceptable to society will therefore vary between different regions the challenge in geotechnical engineering is to make use of worldwide geotechnical experience established over many years to aid in the development and harmonization of geotechnical design codes given the significant uncertainties involved empiricism and engineering judgment will undoubtedly always be an essential element of geotechnical design however rigorous and scientific approaches based on probability theory are finding increased attention in the calibration of modern geotechnical codes of practice and these codes can and should be used to aid fundamental engineering judgment containing contributions on code implementation code application and code development this book provides a single resource that code developers practitioners and researchers can use to understand the different choices made by national code developers around the world furthermore the book highlights some of the key challenges faced worldwide concerning the ongoing process of harmonizing geotechnical design code specifications

rock engineering and rock mechanics structures in and on rock masses covers the most important topics and state of the art in the area of rock mechanics with an emphasis on structures in and on rock masses the 255 contributions including 6 keynote lectures from the 2014 isrm european rock mechanics symposium eurock 2014 vigo spain 27 29 ma

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