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a comprehensive presentation reflecting the author s experience as a consultant on hundreds of projects the book provides a perfect balance between theory and practical application the study of the physical properties of soils is highlighted focusing on the relevance of these properties and their effect upon soil strength compressibility stability and drainage incorporates new topics not found in current books such as geoenvironmental geosynthetics and legal aspects includes scores of photographs example problems and several case studies

effectively calculate the pressures of soil when it comes to designing and constructing retaining structures that are safe and durable understanding the interaction between soil and structure is at the foundation of it all laying down the groundwork for the non specialists looking to gain an understanding of the background and issues surrounding g

complete review and practice for the geotechnical section of the civil pe exam and the california ge exam learn to solve geotechnical problems in the most efficient manner topics covered earthworks rock mechanics soil settlement shallow deep foundations effective stress bearing capacity earth pressures retaining walls sheet piles

the world's fresh water supplies are dwindling rapidly even wastewater is now considered an asset by 2025 most of the world's population will be facing serious water stresses and shortages aquanotechnology global prospects breaks new ground with its informative and innovative introduction of the application of nanotechnology to the remediation of contaminated water for drinking and industrial use it provides a comprehensive overview from a global perspective of the latest research and developments in the use of nanotechnology for water purification and desalination methods the book also covers approaches to remediation such as high surface area nanoscale media for adsorption of toxic species uv treatment of pathogens and regeneration of saturated media with applications in municipal water supplies produced water from fracking ballast water and more it also discusses membranes desalination sensing engineered polymers magnetic nanomaterials electrospun nanofibers photocatalysis endocrine disruptors and al13 clusters it explores physics based phenomena such as subcritical water and cavitation induced sonoluminescence and fog harvesting with contributions from experts in developed and developing countries including those with severe contamination such as china india and pakistan the book's content spans a wide range of the subject areas that fall under the aquanotechnology banner either squarely or tangentially the book strongly emphasizes sorption media with broad application to a myriad of contaminants both geogenic and anthropogenic keeping in mind that it is not enough for water to be potable it must also be palatable

learn how to conduct a professional forensic geotechnical and foundation investigation clearly written and easy to use this authoritative book shows you step by step how to investigate damage deterioration or collapse in a structure evaluate problems caused by settlement expansive soil slope movement moisture intrusion and more investigate damage from earthquakes and other natural causes determine what caused the damage develop repair recommendations prepare files and reports avoid civil liability no matter what caused the structural damage this book will help you pinpoint it and if necessary suggest a remedy with advice on all aspects of the process from accepting the assignment to testifying compellingly this book is your all in one guide to geotechnical and foundation investigations in forensic engineering

provides in depth earthquake engineering analysis as applied to soils includes worked out problems illustrating earthquake analyses and current seismic codes
publisher description

a fully up to date practical guide to foundation engineering revised to cover the 2009 international building code foundation engineering handbook second edition presents basic geotechnical field and laboratory studies such as subsurface exploration and laboratory testing of soil rock and groundwater samples the book then discusses the geotechnical aspects of foundation engineering including conditions commonly encountered by design engineers settlement expansive soil and slope stability details on the performance or engineering evaluation of foundation construction and the application of the 2009 international building code are included in this valuable resource foundation engineering handbook second edition covers subsurface exploration laboratory testing soil mechanics shallow and deep foundations bearing capacity and settlement of foundations foundations on expansive soil slope stability retaining walls foundation deterioration and cracking geotechnical earthquake engineering for soils foundations and retaining walls grading and other soil improvement methods foundation excavation underpinning and field load tests geosynthetics and instrumentation 2009 international building code regulations for soils and foundations

the latest methods for designing seismically sound structures fully updated for the 2012 international building code geotechnical earthquake engineering handbook second edition discusses basic earthquake principles common earthquake effects and typical structural damage caused by seismic shaking earthquake computations for conditions commonly encountered by design engineers such as liquefaction settlement bearing capacity and slope stability are included site improvement methods that can be used to mitigate the effects of earthquakes on structures are also described in this practical comprehensive guide coverage includes basic earthquake principles common earthquake effects earthquake structural damage site investigation for geotechnical earthquake engineering liquefaction earthquake induced settlement bearing capacity analyses for earthquakes slope stability analyses for earthquakes retaining wall analyses for earthquakes other geotechnical earthquake engineering analyses grading and other soil improvement methods foundation alternatives to mitigate earthquake effects earthquake provisions in building codes

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throughout the book for ease of use in the field coverage includes field exploration laboratory testing soil and rock classification phase relationships effective stress and stress distribution shear strength permeability and seepage settlement analyses bearing capacity analyses pavement and pipeline design expansive soil slope stability geotechnical earthquake engineering erosion analyses retaining walls deterioration foundations grading and other site improvement methods groundwater and percolation tests excavation underpinning and field load tests geosynthetics instrumentation international building code regulations for soils international building code regulations for foundations

begin a lucrative career as a forensic structural engineer looking into the causes of structural deficiencies and failures of buildings bridges and other constructed facilities rendering opinions and testifying in judicial proceedings has become a field of professional practice all its own forensic structural engineering handbook edited by robert t ratay tells you how to become proficient in this area providing you with procedures lists of what to watch out for how to deal with clients and more in this only comprehensive guide to the subject well known experts explain everything you need to know from design and construction codes standards and regulations and technical and legal steps to engineering analysis of structural defects and failures in steel concrete timber and masonry structures stone and precast cladding foundations and retaining walls and temporary structures

instant access to the latest geotechnical engineering data fully updated to include the 2012 international building code ibc geotechnical engineer's portable handbook second edition features a wealth of on the job geotechnical and construction related information in a convenient quick reference format this practical resource is filled with essential data formulas and guidelines you can access right away detailed tables charts graphs and illustrations are included throughout the book for ease of use in the field coverage includes field exploration laboratory testing soil and rock classification phase relationships effective stress and stress distribution shear strength permeability and seepage settlement analyses bearing capacity analyses pavement and pipeline design expansive soil slope stability geotechnical earthquake engineering erosion analyses retaining walls deterioration foundations grading and other site improvement methods groundwater and percolation tests excavation underpinning and field load tests geosynthetics instrumentation international building code regulations for soils international building code regulations for foundations

this study presents practical aspects of geotechnical and foundation engineering with the emphasis on visual aspects it develops a project and uses it as an example for the way to conduct design and construction methods and procedures

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