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Journal of Geotechnical and Geoenvironmental Engineering
Dr. Don J. DeGroot is a geotechnical engineer and professor in the Department of Civil and Environmental Engineering at the University of Massachusetts Amherst. He received his Doctor of Science degree in Civil Engineering with specialization in geotechnical engineering at the Massachusetts Institute of Technology in 1989.

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The Geotechnical Engineering Handbook brings together essential information related to the evaluation of engineering properties of soils, design of foundations such as spread footings, mat foundations, piles, and drilled shafts, and fundamental principles of analyzing the stability of slopes and embankments, retaining walls, and other earth-retaining structures. The Handbook also covers soil dynamics and foundation vibration to analyze the behavior of foundations subjected to cyclic vertical, sliding and rocking excitations and topics addressed in some detail include: environmental geotechnology and foundations for railroad beds.

Fundamentals of Geoenvironmental Engineering: Understanding Soil, Water, and Pollutant Interaction and Transport examines soil-water-pollutant interaction, including physico-chemical processes that occur when soil is exposed to various contaminants. Soil characteristics relevant to remedial techniques are explored, providing foundations for the correct process selection. Built upon the authors' extensive experience in research and practice, the book updates and expands the content to include current processes and pollutants. The book discusses propagation of soil pollution and soil characteristics relevant to remedial techniques. Practicing geotechnical and environmental engineers can apply the theory and case studies in the book directly to current projects. The book first discusses the stages of economic development and their connections to the sustainability of the environment. Subsequent chapters cover waste and its management, soil systems, soil-water and soil-pollutant interactions, subsurface transport of pollutants, role of groundwater, nano-, micro- and biologic pollutants, soil characteristics that impact pollution diffusion, and potential remediation processes like mechanical, electric, magnetic, hydraulic and dielectric permittivity of soils. Presents a clear understanding of the propagation of pollutants in soils Identifies the physico-chemical processes in soils Covers emerging pollutants (nano-, micro- and biologic contaminants) Features in-depth coverage of hydraulic, electrical, magnetic and dielectric permittivity characteristics of soils and their impact on remedial technologies

A must have reference for any engineer involved with foundations, piers, and retaining walls, this remarkably comprehensive volume illustrates soil characteristic concepts with examples that detail a wealth of practical considerations. It covers the latest developments in the design of drilled pier foundations and mechanically stabilized earth retaining wall and explores a pioneering approach for predicting the nonlinear behavior of laterally loaded long vertical and batter piles. As complete and authoritative as any volume on the subject, it discusses soil formation, index properties, and classification; soil permeability, seepage, and the effect of water on stress conditions; stresses due to surface loads; soil compressibility and consolidation; and shear strength characteristics of soils. While this book is a valuable teaching text for advanced students, it is one that the practicing engineer will continually be taking off the shelf long after school lets out. Just the quick reference it affords to a huge range of tests and the appendices filled with essential data, makes it an essential addition to an civil engineering library.

Geoenvironmental Engineering covers the application of basic geological and hydrological science, including soil and rock mechanics and groundwater hydrology, to any number of different environmental problems. * Includes end-of-chapter summaries, design examples and worked-out numerical problems, and problem questions. * Offers thorough coverage of the role of geotechnical engineering in a wide variety of environmental issues. * Addresses such issues as remediation of in-situ hazardous waste, the monitoring and control of groundwater pollution, and the creation and management of landfills and other above-ground and in-situ waste containment systems.

Applies science and engineering principles to the analysis, design, and implementation of technical schemes to characterize, treat, modify, and reuse/store waste and contaminated media. Includes site remediation.

Dealing with the fundamentals and general principles of soil mechanics and geotechnical engineering, this text also examines the design methodology of shallow / deep foundations, including machine foundations. In addition to this, the volume explores earthen embankments and retaining structures, including an investigation into ground improvement techniques, such as geotextiles, reinforced earth, and more

Integrating and blending traditional theory with particle-energy-field theory, this book provides a framework for the analysis of soil behaviour under varied environmental conditions. This book explains the why and how of geotechnical engineering in an environmental context. Using both SI and Imperial units, the authors cover: rock mechanics soil mechanics and hydrogeology soil properties and classifications and issues relating to contaminated land. Students of civil, geotechnical and environmental engineering and practitioners unfamiliar with the particle-energy-field concept, will find that this book's novel approach helps to clarify the complex theory behind geotechnics.

Considering how structures interact with soil, and building proper foundations, is vital to ensuring public safety and to the longevity of buildings. Understanding the strength and compressibility of subsurface soil is essential to the foundation engineer. The Foundation Engineering Handbook, Second Edition provides the fundamentals of foundation engineering needed by professional engineers and engineering students. It presents both classical and state-of-the-art design and analysis techniques for earthen structures and examines the principles and design methods of foundation engineering needed for design of building foundations, embankments, and earth retaining structures. It covers basic soil mechanics, and soil and groundwater modeling concepts, along with the latest research results. What 's New in the Second Edition: Adds alternative analytical techniques to nearly every chapter Supplements existing material with new content Includes additional applications in the state of the art such as unsaturated soil mechanics, analysis of transient flow through soils, deep foundation construction monitoring based on thermal integrity profiling, and updated ground remediation techniques Covers reliability-based design and LRFD (load resistance factor design) concepts not addressed in most foundation engineering texts Provides more than 500 illustrations and over 1,300 equations The text serves as an ideal resource for practicing foundation and geotechnical engineers, as well as a supplemental textbook for both undergraduate and graduate levels.

In his latest book, the Handbook of Environmental Engineering, esteemed author Frank Spellman provides a practical view of pollution and its impact on the natural environment. Driven by the hope of a sustainable future, he stresses the importance of environmental law and resource sustainability, and offers a wealth of information based on real-worl

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