



Geotechnical Site Characterization

By Anirban De

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The topic of site characterization is unique to geotechnical engineering and owes its significance directly to the variability of the natural geologic deposits on the earth's surface. Proper site characterization requires an understanding of various field and laboratory investigation methods. The book discusses the suitability of various methods under different site conditions and presents the procedures to derive design parameters based on interpretation of test results. Recent developments in specialized site characterization methods (such as seismic hazard evaluation) are also included. Three recent case histories are presented, where site characterization played a key role. The three disparate cases include soft natural soil under static loading, coarse and fine-grained soil under seismic impact, and hazardous waste deposits under both static and seismic loading. Site investigation requirements of building codes are discussed and guidelines for preparing a typical site characterization report are presented. The book is aimed at the practicing geotechnical engineer, as well as advanced undergraduate and graduate students.

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Editorial Review

About the Author

Anirban De, PhD, PE is an associate professor and department chairman of civil and environmental engineering at Manhattan College in New York City. He received his BCE degree with honors from Jadavpur University in Calcutta, India, his MS from Illinois Institute of Technology in Chicago, and his PhD from Rensselaer Polytechnic Institute in Troy, New York. He has received several major grants from the National Science Foundation (NSF) focused on geotechnical engineering research, as well as on undergraduate engineering education. He has published extensively in his field of expertise and actively serves on several boards and committees.

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