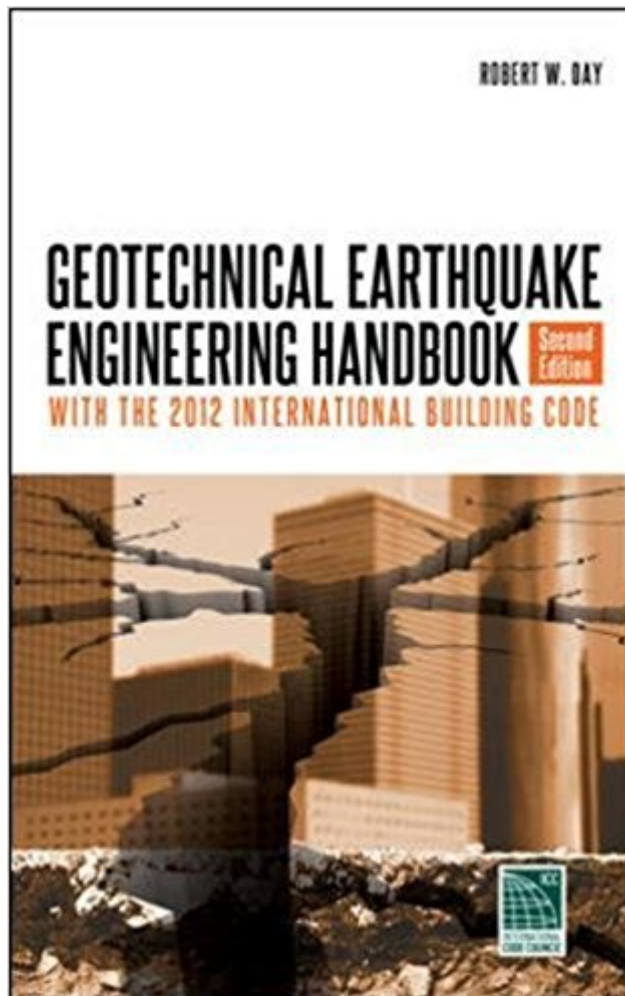




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# Geotechnical Earthquake Engineering, Second Edition (Mechanical Engineering)



## Synopsis

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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## Customer Reviews

Robert W. Day is a leading forensic engineer and the chief engineer at American Geotechnical in San Diego, California. The author of more than 200 published technical papers, he serves on

advisory committees for several professional associations, including ASCE, ASTM, and NCEES. Mr. Day holds both bachelor's and master's degrees in structural engineering from Villanova University and a master's degree in civil engineering and a civil engineer degree from the Massachusetts Institute of Technology. He is author of numerous McGraw-Hill books in geotechnical engineering, including Forensic Geotechnical and Foundation Engineering, Second Edition and Geotechnical Engineers Portable Handbook, Second Edition.

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