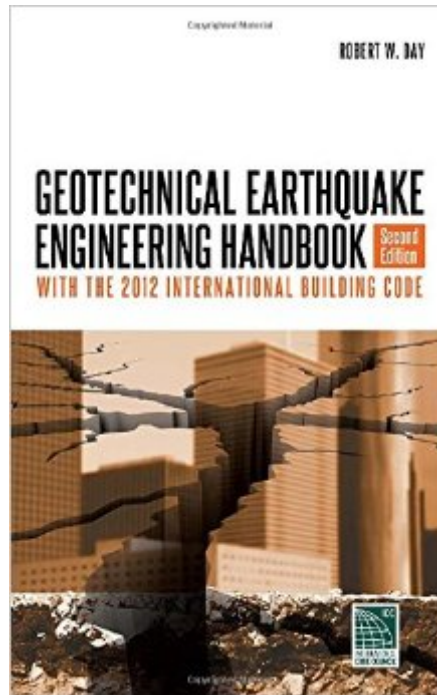


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Geotechnical Earthquake Engineering, Second Edition



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

Book Information

Hardcover: 692 pages

Publisher: McGraw-Hill Education; 2 edition (August 6, 2012)

Language: English

ISBN-10: 0071792384

ISBN-13: 978-0071792387

Product Dimensions: 6.3 x 1.7 x 9.3 inches

Shipping Weight: 2.4 pounds (View shipping rates and policies)

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