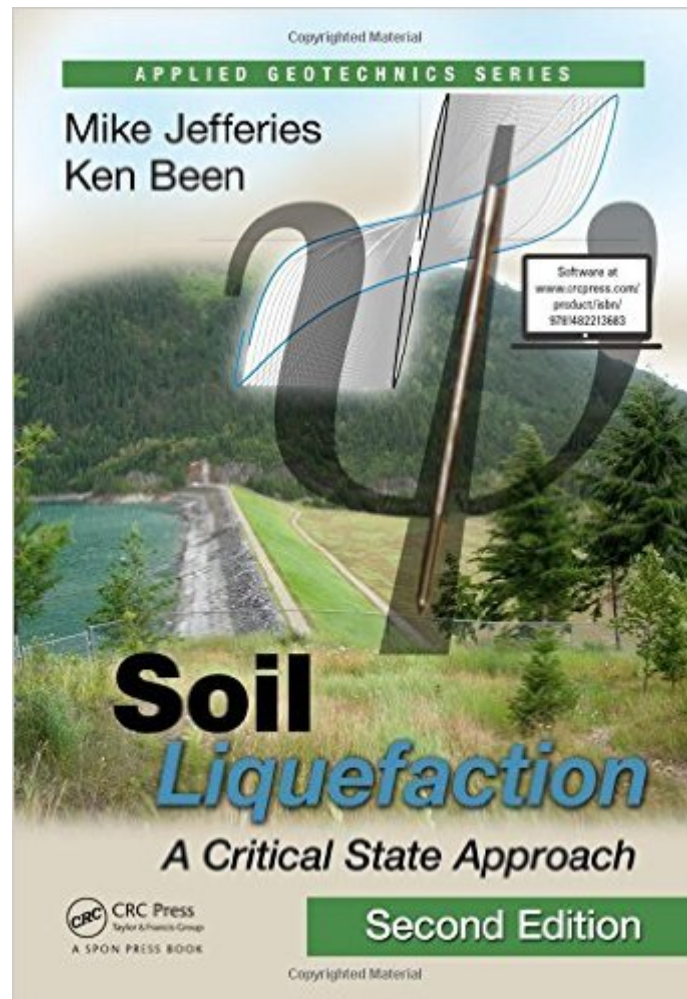


The book was found

Soil Liquefaction: A Critical State Approach, Second Edition (Applied Geotechnics)



Synopsis

A Rigorous and Definitive Guide to Soil Liquefaction Soil liquefaction occurs when soil loses much of its strength or stiffness for a time—usually a few minutes or less—and which may then cause structural failure, financial loss, and even death. It can occur during earthquakes, from static loading, or even from traffic-induced vibration. It occurs worldwide and affects soils ranging from gravels to silts. **From Basic Physical Principles to Engineering Practice** Soil Liquefaction has become widely cited. It is built on the principle that liquefaction can, and must, be understood from mechanics. This second edition is developed from this premise in three respects: with the inclusion of silts and sandy silts commonly encountered as mine tailings, by an extensive treatment of cyclic mobility and the cyclic simple shear test, and through coverage from the "element" scale seen in laboratory testing to the evaluation of "boundary value problems" of civil and mining engineering. As a mechanics-based approach is necessarily numerical, detailed derivations are provided for

downloadable open-code software (in both Excel/VBA and C++) including code verifications and validations. The "how-to-use" aspects have been expanded as a result of many conversations with other engineers, and these now cover the derivation of soil properties from laboratory testing through to assessing the in situ state by processing the results of cone penetration testing.

Book Information

Series: Applied Geotechnics

Hardcover: 712 pages

Publisher: CRC Press; 2 edition (October 5, 2015)

Language: English

ISBN-10: 1482213680

ISBN-13: 978-1482213683

Product Dimensions: 7.2 x 1.7 x 10.2 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,120,066 in Books (See Top 100 in Books) #57 in Books > Engineering & Transportation > Engineering > Civil & Environmental > Seismic Design #150 in Books > Science & Math > Earth Sciences > Seismology #243 in Books > Science & Math > Earth Sciences > Geophysics

[Download to continue reading...](#)

Soil Liquefaction: A Critical State Approach, Second Edition (Applied Geotechnics) Groundwater Lowering in Construction: A Practical Guide to Dewatering, Second Edition (Applied Geotechnics) Methods of Soil Analysis. Part 2. Microbiological and Biochemical Properties (Soil Science Society of America Book, No 5) (Soil Science Society of America Book Series) Introduction to Tunnel Construction (Applied Geotechnics) The Soul of Soil: A Soil-Building Guide for Master Gardeners and Farmers, 4th Edition Start With the Soil: The Organic Gardener's Guide to Improving Soil for Higher Yields, More Beautiful Flowers, and a Healthy, Easy-Care Garden Taylor's Weekend Gardening Guide to Soil and Composting: The Complete Guide to Building Healthy, Fertile Soil (Taylor's Weekend Gardening Guides (Houghton Mifflin)) Defining Soil Quality for a Sustainable Environment: Proceedings of a Symposium Sponsored by Divisions S-3, S-6, and S-2 of the Soil Science Society (S S S a Special Publication) Tomography of Soil-Water-Root Processes: Proceedings of a Symposium Sponsored by Division S-1 and S-6 of the Soil Science Society of America in Minn (S S S a Special Publication) Soil Mechanics in Highway Engineering (Series on Rock and Soil Mechanics) Critical Care Nursing: A Holistic Approach (Critical Care Nursing: A Holistic Approach (Hudak)) Critical Race Theory: An Introduction, Second Edition (Critical America) Elena Bablenis Haveles BS Pharm Pharm D's Applied Pharmacology 6th (Sixth) edition (Applied Pharmacology for the Dental Hygienist [Paperback])(2010) Applied Biopharmaceutics & Pharmacokinetics, Sixth Edition (Shargel, Applied Biopharmaceutics & Pharmacokinetics) Soil and Water Chemistry: An Integrative Approach Principles of Soil and Plant Water Relations, Second Edition Plant Nutrition and Soil Fertility Manual, Second Edition Environmental Soil Chemistry, Second Edition Applied Cryptography: Protocols, Algorithms, and Source Code in C [APPLIED CRYPTOGRAPHY: PROTOCOLS, ALGORITHMS, AND SOURCE CODE IN C BY Schneier, Bruce (Author) Nov-01-1995 Applied Therapeutics: The Clinical Use of Drugs (APPLIED THERAPEUTICS (KODA-KIMBLE))

[Dmca](#)