



Advanced Geotechnical Engineering: Soil-Structure Interaction using Computer and Material Models (Hardback)

By Chandrakant S. Desai, Musharraf Zaman

Taylor Francis Inc, United States, 2013. Hardback. Condition: New. Language: English . Brand New Book. Soil-structure interaction is an area of major importance in geotechnical engineering and geomechanics. Advanced Geotechnical Engineering: Soil-Structure Interaction using Computer and Material Models covers computer and analytical methods for a number of geotechnical problems. It introduces the main factors important to the application of computer methods and constitutive models with emphasis on the behavior of soils, rocks, interfaces, and joints, vital for reliable and accurate solutions. This book presents finite element (FE), finite difference (FD), and analytical methods and their applications by using computers, in conjunction with the use of appropriate constitutive models; they can provide realistic solutions for soil-structure problems. A part of this book is devoted to solving practical problems using hand calculations in addition to the use of computer methods. The book also introduces commercial computer codes as well as computer codes developed by the authors. * Uses simplified constitutive models such as linear and nonlinear elastic for resistance-displacement response in 1-D problems * Uses advanced constitutive models such as elasticplastic, continued yield plasticity and DSC for microstructural changes leading to microcracking, failure and liquefaction * Delves into the FE and FD...

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