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Dr. Muniram Budhu is professor of Civil Engineering and **Engineering Mechanics** at the University of Arizona, Tucson, He received his doctoral degree from Cambridge University in 1979 and is currently?registered as a professional civil engineer in the state of Florida.?His research interests include, Page 33/65

bioremediation, smart clay as a barrier for landfills, seismic behavior of soils and foundation systems, and erosion from hydropower dams.

This accessible, clear and concise textbook strikes a balance between theory and Page 34/65

practical applications for an introductory course in soil mechanics for undergraduates in civil engineering, construction, mining and geological engineering. Soil Mechanics Fundamentals lays a solid foundation on key principles of soil mechanics for application in later Page 35/65

engineering courses as well as in engineering practice. With this textbook, students will learn how to conduct a site investigation, acquire an understanding of the physical and mechanical properties of soils and methods of determining them, and apply the knowledge gained to analyse and design Page 36/65

earthworks, simple foundations, retaining walls and slopes. The author discusses and demonstrates contemporary ideas and methods of interpreting the physical and mechanical properties of soils for both fundamental knowledge and for practical applications. The chapter presentation and Page 37/65

content is informed by modern theories of how students learn: Learning objectives inform students what knowledge and skills they are expected to gain from the chapter. Definitions of Key Terms are given which students may not have encountered previously, or may have been understood in a different Page 38/65

context. Key Point summaries throughout emphasize the most important points in the material just read. Practical Examples give students an opportunity to see how the prior and current principles are integrated to solve 'real world' problems.

Discover the principles that support the Page 39/65

practice! With its simplicity in presentation, this text makes the difficult concepts of soil mechanics and foundations much easier to understand. The author explains basic concepts and fundamental principles in the context of basic mechanics, physics, and mathematics. From Page 40/65

Practical Situations and Essential Points to Practical Examples, this text is packed with helpful hints and examples that make the material crystal clear.

This accessible, clear and concise textbook strikes a balance between theory and Page 41/65

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context. Key Point summaries throughout emphasize the most important points in the material just read. Practical Examples give students an opportunity to see how the prior and current principles are integrated to solve 'real world' problems.

Budhu presents the basic concepts and Page 46/65

fundamental principles that engineers must know to understand the methods utilized in foundation design by exploring the values and limitations of popular methods of analyses in foundation engineering.

Discover the Principles that Support the Page 47/65

Practice! With its simplicity in presentation, this book makes the difficult concepts of soil mechanics and foundations much easier to understand! The author explains basic concepts and fundamental principles in the context of basic mechanics, physics, and mathematics. From Page 48/65

Practical Situations and Essential Points to Practical Examples the book is packed with helpful hints and examples that make the material crystal clear. This book also includes a CD-ROM that offers readers hands-on learning. Introduction to Soil Mechanics and Foundations Geological Characteristics of Soils Page 49/65

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Bearing Capacity of Soils and Settlement of Shallow Foundations: Pile Foundations: Two-Dimensional Flow of Water through Soils: Stability of Earth Retaining Structures: Slope Stability

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Foundations: Basic Geotechnics, Seventh Edition, provides a clear, detailed presentation of soil mechanics: the background and basics, the engineering properties and behavior of soil deposits, and the application of soil mechanics theories. Appropriate for soil mechanics courses in Page 52/65

engineering, architectural and construction-related programs, this new edition features a separate chapter on earthquakes, a more logical organization, and new material relating to pile foundations design and construction and soil permeability. It's rich applications, wellillustrated examples, Page 53/65

end-of-chapter problems and detailed explanations make it an excellent reference for students, practicing engineers, architects, geologists, environmental specialists and more.

Soils can rarely be described as ideally elastic or perfectly plastic and yet simple Page 54/65

elastic and plastic models form the basis for the most traditional geotechnical engineering calculations. With the advent of cheap powerful computers the possibility of performing analyses based on more realistic models has become widely available. One of the aims of this book is Page 55/65

to describe the basic ingredients of a family of simple elastic-plastic models of soil behaviour and to demonstrate how such models can be used in numerical analyses. Such numerical analyses are often regarded as mysterious black boxes but a proper appreciation of their worth requires an understanding of the Page 56/65

numerical models on which they are based. Though the models on which this book concentrates are simple, understanding of these will indicate the ways in which more sophisticated models will perform.

A simplified approach to applying the Finite Element Method to Page 57/65

geotechnical problems Predicting soil behavior by constitutive equations that are based on experimental findings and embodied in numerical methods, such as the finite element method, is a significant aspect of soil mechanics. Engineers are able to solve a wide range of geotechnical engineering problems, Page 58/65

especially inherently complex ones that resist traditional analysis. **Applied Soil Mechanics** with ABAQUS® Applications provides civil engineering students and practitioners with a simple, basic introduction to applying the finite element method to soil mechanics problems. Page 59/65

Accessible to someone with little background in soil mechanics and finite element analysis, **Applied Soil Mechanics** with ABAQUS® Applications explains the basic concepts of soil mechanics and then prepares the reader for solving geotechnical engineering problems using both traditional engineering solutions Page 60/65

and the more versatile, finite element solutions. Topics covered include: Properties of Soil Elasticity and Plasticity Stresses in Soil Consolidation Shear Strength of Soil Shallow Foundations Lateral Earth Pressure and Retaining Walls Piles and Pile Groups Seepage Taking a unique approach, the Page 61/65

author describes the general soil mechanics for each topic, shows traditional applications of these principles with longhand solutions, and then presents finite element solutions for the same applications, comparing both. The book is prepared with ABAQUS® software applications to enable a range of readers to Page 62/65

experiment firsthand with the principles described in the book (the software application files are available under "student resources" at www.wile y.com/college/helwany). By presenting both the traditional solutions alongside the FEM solutions, Applied Soil Mechanics with **ABAQUS®** Page 63/65

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