

Book Description:

The leading text for foundation engineering courses, Principles of Foundation Engineering, 8e maintains a careful balance of current research and practical field applications as it introduces civil engineering students to the fundamental concepts and applications of foundation analysis design. Throughout the book, author Braja M. Das emphasizes the judgment needed to properly apply theories and analysis to the evaluation of soils and foundation design. In addition a wealth of worked out examples and figures show students how to do the work they will be doing as civil engineers, while homework problems at the end of each chapter help them hone their problem-solving skills

Key Features:

Students learn that the soil parameters obtained from different empirical correlations are not always the same.

- References at the end of every chapter allow students to further explore topics of interest.
- Balanced coverage of the most up-to-date research and practical field applications prepares students for a career in civil engineering.
- A clear, straightforward writing style helps students understand key topics.
- Multiple theories and empirical correlations are presented where applicable.
- Two new chapters broaden the text's coverage.
- The book has been reorganized to facilitate more efficient studying.
- New material in almost every chapter introduces students to the latest information in the field.
- Each chapter has new worked-out examples that show students how to do the actual work they'll be faced with as civil engineers.
- New homework questions help students master and apply concepts and new photos bring concepts to life.
- A new appendix on reinforced concrete design principles uses the most recent ACI code and shows students what's new in their field.
- Includes Mindtap which is an interactive, customizable and complete learning solution. It includes a MindTap Reader and a library of learning apps (e.g., CNOW, Aplia, Read Speaker, Merriam-Webster dictionary, My Content, RSS Feed, Kaltura, Progress app, etc.).

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Dr. Braja Das is Dean Emeritus of the College of Engineering and Computer Science at California State University, Sacramento. He received his M.S. in Civil Engineering from the University of Iowa and his Ph.D. in Geotechnical Engineering from the University of Wisconsin. He is the author of a number of geotechnical engineering texts and reference books and more than 250 technical papers in the area of geotechnical engineering. His primary areas of research include shallow foundations, earth anchors and geosynthetics. Dr. Das is a Fellow and Life Member of the American Society of Civil Engineers, Life Member of the American Society for Engineering Education and an Emeritus Member of the Chemical and Mechanical Stabilization Committee of the Transportation Research Board of the National Research Council (Washington D.C.). He has received numerous awards for teaching excellence, including the AMOCO Foundation Award, the AT&T Award for Teaching Excellence from the American Society for Engineering Education, the Ralph Teetor Award from the Society of Automotive Engineers and the Distinguished Achievement Award for Teaching Excellence from the University of Texas at El Paso.