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R.K. Khitoliya:- R.K. Khitoliya is Professor and Former Head, Civil Engineering Department, PEC University of Technology, Chandigarh. He graduated in Civil Engineering from IIT-BHU, Varanasi. He earned M.Tech and Ph.D both in Civil Engineering from IIT Delhi.

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Geotechnical engineering, also known as geotechnics, is the application of scientific methods and engineering principles to the



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has tried to collect the material from various sources and to present in the form of a text.

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## What does a geotechnical engineer do?

### CareerExplorer

Kasama, K. & Zen, K., Dec 1 2009, Proceedings of the 17th International Conference on Soil Mechanics and Geotechnical Engineering: The Academia and Practice of Geotechnical Engineering. p. 2304-2307 4 p. (Proceedings of the 17th

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International Conference on Soil Mechanics and Geotechnical Engineering: The Academia and Practice of Geotechnical Engineering; vol. 3).  
Research output: Chapter in ...

## Geotechnical Engineering – Research Output — Kyushu University

Geotechnical engineering is closely linked to, and overlaps with, both engineering geology and ground engineering. It's possible to specialise in geotechnics or work for a geotechnical company, but be known as an engineering geologist or a ground engineer.

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Learn the basics of soil mechanics and foundation engineering This hands-on guide shows, step by step, how soil mechanics principles can be applied to solve geotechnical and foundation engineering problems. Presented in a straightforward, engaging style by an experienced PE, *Soil Mechanics and Foundation Engineering: Fundamentals and Applications* starts with the basics, assuming no prior knowledge, and gradually proceeds to more advanced topics. You will get rich illustrations, worked-out examples, and real-world case studies that help you absorb the critical points in a short time. Coverage includes:

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The papers included in this book describe various in-situ tests, routine and soil-specific, being used in various countries. The work opens new vistas of improvement in in-situ tests for soils to suit certain specific soil-structure interaction and designed performance of structure

**ABOUT THE BOOK:** The basic aim of the seventeenth edition of Surveying, Volume-I, is the same as that of the earlier

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editions, namely, to present the fundamentals of the subject in a simplified manner and to illustrate the basic concepts in a simple and lucid language so that even a beginner can understand it. A large number of worked examples and figures have been given to illustrate the basic theories. The subject matter has been revised wherever necessary to make some of the basic concepts more clear and understandable. A few new problems and examples have been added. Some of the old figures have been replaced by new ones. Either colored plates of the surveying instruments have been added as an appendix. These plates and figures are useful for making the subject matter more illustrative. **OUTSTANDING FEATURES:** -E.D.M., Total Station & G.P.S. are included separately -All the text has been explained in a simple, lucid language -SI Units used in the entire book

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This book will be useful for Degree/Diploma/A.M.I.E. students and equally useful to the field engineers and surveyors -Number of problems have been solved in details -Subject matter is supported by very good diagrams -Either colored plates of the surveying instruments have been added as an appendix.

**RECOMMENDATIONS:** A textbook for all Engineering Branches, Competitive Examination, ICS, and AMIE Examinations

**ABOUT THE**

**AUTHOR: Dr. K.R. ARORA B.E.**

(Civil), M.E. (Hons), Ph.D (I.I.T. Delhi) Professor and former Head, Department of Civil Engineering, Engineering College, Kota (Rajasthan).

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