



Geotechnical Engineering, 1/e

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About the Book

The book exhaustively deals with the fundamental principles of soil mechanics and aims to serve the needs of B.E., and B. Tech students of Civil Engineering. It covers the syllabi of almost all technical universities and institutes. The concepts have been developed systematically. A large number of graded numerical examples and solutions are included. References are made to the relevant Indian standard codes at appropriate places.

New concepts like Critical-State Concept, Three-Dimensional Consolidation and Stress Path Method have also been included in the book. The book will be useful for degree & diploma students of Civil Engineering, practising engineers and students appearing in various competitive examinations including AMIE.

Salient Features

- ▶ Basic Terminology and Interrelations
- ▶ Index Properties of Soils
- ▶ Soil Classification Systems
- ▶ Soil Water and Effectives Stress
- ▶ Permeability
- ▶ Seepage Analysis
- ▶ Stress Distribution in Soil Mass
- ▶ Compaction
- ▶ Consolidation
- ▶ Shear Strength of Soils
- ▶ Lateral Earth Pressure and Earth Retaining Structures
- ▶ Stability of Slopes

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About the Author

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. He also completed his LL.B, LL.M and M.B.A degrees. He has been UNDP fellow at University of B.C.Vancouver, Canada. Dr. Khitoliya has vast experience of more than 33 years as researcher, administrator and academician. He has also served as Director, HBTI, Kanpur and had been founder Principal of Dr. B.R. Ambedkar College of Information Technology, Bijnore, U.P. He has authored eight books and more than 300 technical papers, published in journals/proceedings of seminar and conferences in the fields of Geotechnical Engineering, Environmental Management and Transportation Engineering. He has provided consultancy to more than 250 projects and has supervised more than 10 Ph D and about 95 M.E. theses.

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