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Accelerating economic development and urbanization has led to engineers becoming increasingly ambitious, carrying out excavations in more difficult soils, so that excavations are deeper and more extensive. These complex conditions require advanced analysis, design methods and construction technologies. Most books on general foundation engineering introduce basic analysis and design of excavation, but do not usually deal with analysis and design in practice. This book covers both areas, introducing methods currently used in modern engineering, which can readily be applied to analysis and design in actual excavations. Based on interaction between research results, analysis and teaching experience, the book is suitable for both teachers and engineers in advanced analysis and design. Each chapter ends with a series of problems and solutions, making it equally useful as a textbook for senior undergraduate and graduate levels.



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About the Author

Chang-Yu Ou is Professor of Construction Engineering at the National Taiwan University of Science and Technology in Taipei. Professor Ou's focus of research is on studies of soil behaviour and excavation problems and he has published many journal and conference papers on these subjects. In parallel to his academic career, he has worked closely with industrial builders, taking part in many large-scale excavation projects, gaining valuable practical experience in analysis and design.

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