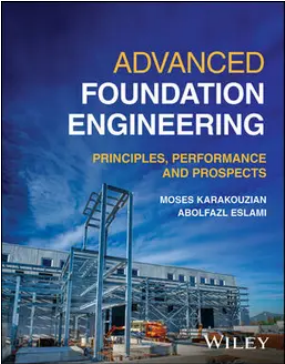


WILEY

To Purchase this product, please visit
<https://www.wiley.com/en-us/Advanced+Foundation+Engineering%3A+Principles%2C+Performance+and+Prospects-p-9781394203475>



Advanced Foundation Engineering: Principles, Performance and Prospects

Moses Karakouzian, Abolfazl Eslami

E-Book	978-1-394-20347-5	April 2026		\$145.00
Hardcover	978-1-394-20345-1	July 2026	Pre-Order	\$180.95

Description

A practical, straightforward, and easy-to-use graduate-level textbook on the principles of foundation engineering

Advanced Foundation Engineering offers clear and detailed coverage of all aspects of the design, analysis, construction, and testing of structural elements responsible for transferring imposed loads from a superstructure to the ground. Written for advanced undergraduate and graduate engineering students, this comprehensive textbook incorporates traditional foundation engineering topics as well as recent advances and innovations in the field. The authors include discussion of timely issues such as the impact of the digital revolution, worldwide environmental concerns, the increasing scarcity of raw materials, the use of geotechnical data banks, the sustainability of construction materials, and new site investigation techniques.

Providing the knowledge base required to design and build foundations for various types of onshore, offshore, and inland structures, *Advanced Foundation Engineering*:

- Outlines the key components of foundation systems, contemporary classification systems, analysis considerations, and design procedures
- Covers diverse types of foundations and construction techniques, including shallow and semi-deep foundations, skirted and bucket foundations, floating foundations, and pile groups
- Describes data synthesis in preparing geotechnical reports, interactions between problematic soils and foundation design, and factors influencing the engineering properties of geomaterials
- Reviews the construction of various foundations on different geomaterials, key geotechnical requirements, and soil improvement methods
- Provides insights into mitigating foundation issues, optimizing foundation selection, and maximizing existing foundations

Advanced Foundation Engineering: Principles, Performance and Prospects is an ideal textbook for advanced undergraduate and graduate courses in foundation engineering and geotechnical engineering, and an invaluable reference for professional geotechnical engineers.

About the Author

MOSES KARAKOUZIAN is a Professor of Civil Engineering in the Department of Civil & Environmental Engineering at the University of Nevada, Las Vegas, USA. His areas of expertise include geotechnical engineering, foundation engineering, construction materials, and highway and pavement materials.

ABOLFAZL ESLAMI is a Professor of Civil and Environmental Engineering at Amirkabir University of Technology (AUT), Iran, and a private geotechnical consultant in Southern California, USA. He is internationally recognized for his contributions to Cone and Piezocone Penetration Tests, foundation systems, piling and ground engineering.

To Purchase this product, please visit

<https://www.wiley.com/en-us/Advanced+Foundation+Engineering%3A+Principles%2C+Performance+and+Prospects-p-9781394203475>