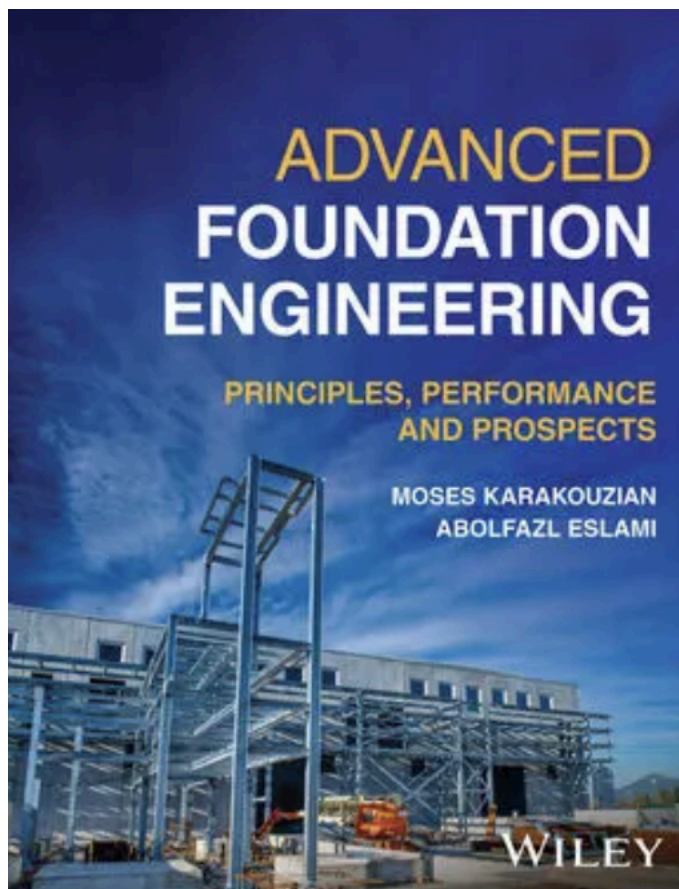


**NEWS ARTICLE ON BOOK PUBLISHED BY DR. KARAKOUZIAN (DR. K)
TO BE PUBLISHED IN THE NEXT UNLV
September 8, 2023**

UNLV Civil Engineering Professor, Dr. Moses Karakouzian (Dr. K), in collaboration, as co-author, with Dr. Abolfazl Eslami, retired Professor at Amirkabir University in Tehran, have published a book titled *Advanced Foundations Engineering: Principles, Performance and Prospects*, Wiley, 2026. Link to the book: <https://www.wiley.com/en-us/shop/general-introductory-civil-engineering-construction/advanced-foundation-engineering-principles-performance-and-prospects-p-9781394203451>



The “bedrock” of this 1200-page book is the extensive collective experience of its authors, whose academic pursuits, groundbreaking research endeavors, and practical consulting engagements span more than seven decades that uniquely position them to distill a wealth of insights into this comprehensive volume. This substantial tenure reflects the depth of their individual contributions as well as their shared commitment to advancing the field of foundation engineering. As stewards of this dynamic discipline, the authors provide a narrative of foundation engineering that reflects the history and the future trajectory of the field, offering

readers insights drawn from the ever-expanding wealth of knowledge. This wealth of experience enriches every page, providing readers with a nuanced understanding of foundation engineering that goes beyond conventional wisdom. As leaders in the field, the authors bring a unique perspective, blending theoretical mastery with practical insights gained from tackling real-world challenges, and providing the readers with an understanding of the intricacies that define modern foundation engineering. This collaborative effort aims to serve as a guide for those seeking a deep understanding and insight of the complexities of foundation engineering, fostering excellence in the next generation of professionals.

The book contextualizes shallow and deep foundation engineering within the broader scope of global infrastructure development, addressing the challenges and opportunities that arise from this surge in demand for infrastructure in the public and private sectors. By examining the challenges and opportunities inherent in this demand, readers will be able to contribute meaningfully and holistically to the development of sustainable, resilient, and innovative foundations that underpin the structures shaping our world. The book covers the following topics:

- Interactive Nature of Foundation Design
- Laboratory and In Situ Testing of Soils for Geotechnical Engineering Properties
- Innovative Foundations
- Important and Dominant Role of Deep Foundations
- Testing of Shallow and Deep Foundations
- Data Mining in Design and Analysis of Foundations
- Reliability and Uncertainty Analysis and LRFD Design
- Numerical Methods and Tools
- Damage and Repair of Foundations
- Sustainability
- Reuse of Existing Foundations
- Value Engineering and Optimization
- Selection of foundation – Project-Based Design Approach
- Numerous Case Studies

Authors' Challenge to Students Academicians and Professionals

The book aspires to issue a bold challenge to students, academicians and professionals in the field of foundation engineering. By presenting groundbreaking insights, innovative approaches, and forward-thinking concepts, we seek to inspire them to embark on a journey of exploration, pushing the boundaries of traditional practices. The goal is to encourage the creation of novel prospects within foundation engineering, sparking a paradigm shift that fosters creativity, resilience, and transformative advancements in the industry. Through this challenge, we aim to catalyze a collective effort towards shaping a dynamic and progressive future for foundation engineering professionals.

THE END

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