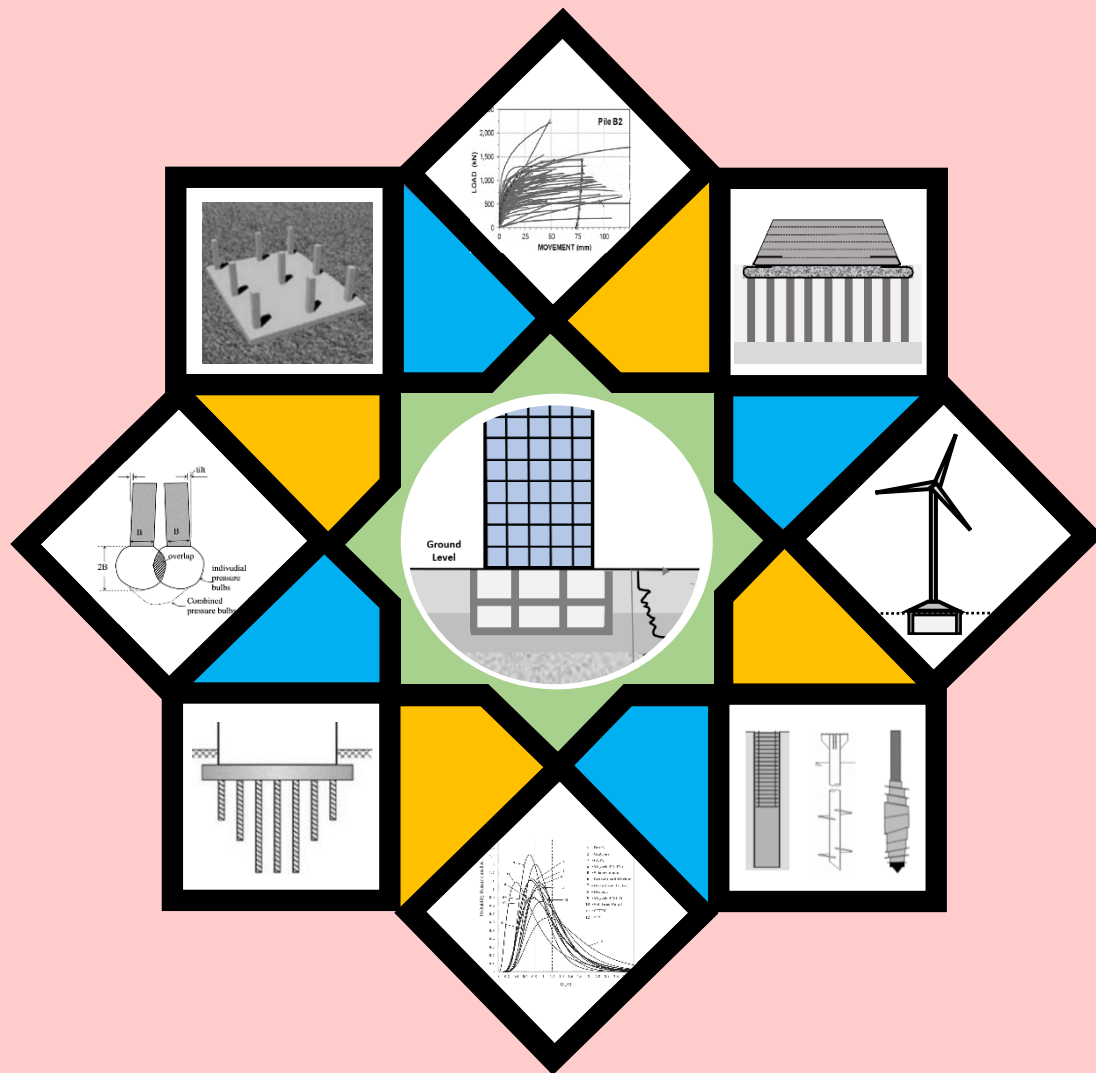


Advanced Foundation Engineering; Principles, Performance and Prospect



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WILEY 2026

TOPICS		SECTIONS		CHAPTERS	
A	Background	I	Context	1	An Introduction to Foundation Engineering
				2	Foundation Systems – Forms and Function
		II	Geotechnical Engineering	3	Geotechnical Site Investigation
				4	Soil and Rock Parameters for Foundations
B	Shallow Foundations	III	Spread Footings and Mats	5	Types and Construction Methods
				6	Geotechnical Design Aspects
				7	Structural Analysis and Design
		IV	Ground Modifications	8	Difficult Soil Improvement
				9	Foundations on Stabilized Soils
C	Semi-Deep Foundations	V	Skirted, Floating, and Shell Foundations	10	Types and Construction Approach
				11	Skirted, Bucket and Spudcan Foundations
				12	Floating (Balanced) Foundations
				13	Shell Foundations
D	Deep Foundations	VI	Single Piles and Drilled Shafts	14	Types and Installation
				15	Geotechnical Design
				16	In-Situ Penetration Testing Applications
				17	Lateral Loading and Structural Aspect
		VII	Combined Loading and Extreme Conditions	18	Combined Loading and Pile Group
				19	Piled Raft Foundations
				20	Performance Under Extreme Conditions
E	Complementary Issues	VIII	Testing and Numerical Approaches	21	Full Scale Load Testings and Inspections
				22	Numerical Analysis
F	Recent Advances and Developments	IX	Trends and Prospects	23	Uncertainty and Reliability
				24	LRFD Approach and Some Codes Review
				25	Data Mining-Based Design
		X	Sustainable Development	26	Foundation Damages; Recognition, and Repair
				27	Foundation Selection – Performance, Sustainability, and Value Engineering/Optimization