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Titolo	Research and Application of High-Performance Concrete : Proceedings of 2024 International Conference on Civil Engineering Structures and Concrete Materials // edited by Faxing Ding, Junjie Zeng, Sudharshan N. Raman, Xiaomeng Hou
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Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (XII, 417 p. 271 illus., 183 illus. in color.)
Collana	Sustainable Civil Infrastructures, , 2366-3413
Disciplina	624
Soggetti	Civil engineering Concrete Materials science Building materials Civil Engineering Materials Science Building Materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This book collects research outcomes related to high-performance concrete as a civil engineering material, providing readers with targeted research experiences and case analyses. From the introduction of Portland cement in the 1920s to the emergence of the water-cement ratio theory in the early 20th century, concrete has become a robust foundation for the rapid development of modern architecture. Due to its advantages and performance superior to traditional natural materials, it has become the primary building material for modern structures. As building heights and design requirements have increased, ordinary concrete can no longer meet modern architectural needs, making high-performance concrete a necessity for engineering projects. Currently, high-performance concrete is primarily produced

by altering the water-cement ratio and adding admixtures. With the gradual scarcity of natural aggregates, high-performance concrete can meet safe design standards while reducing resource consumption. Compared to ultra-high-performance concrete, high-performance concrete is currently more suitable for engineering applications and has a more mature and comprehensive production process and applicability. This book includes selected papers from 2024 International Conference on Civil Engineering Structures and Concrete Materials, focusing on the mechanism studies and applications of high-performance concrete. We hope to share the latest research on high-performance concrete with civil engineering materials engineers worldwide, especially studies on fiber-reinforced concrete and high-performance concrete for complex application environments.

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