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| Sommario/riassunto | This book presents a comprehensive overview of the state of the art in additive manufacturing in the world of concrete construction. 3D Concrete Printing tackles its subject from several angles, including issues relating to concrete materials (such as their formulation or fresh-state behavior), the various printing processes that have been developed, and how to describe the mechanical behavior and architectural and structural designs of printed structures. This book also considers the transition to application and industrialization, and the relevance of these new technologies in reducing the environmental impact of the construction sector. Finally, material characterization methodologies are presented with a view to describing the behavior of materials both before and after printing, and the modeling tools used to simulate the process are listed. |