

3D Concrete Printing Technology

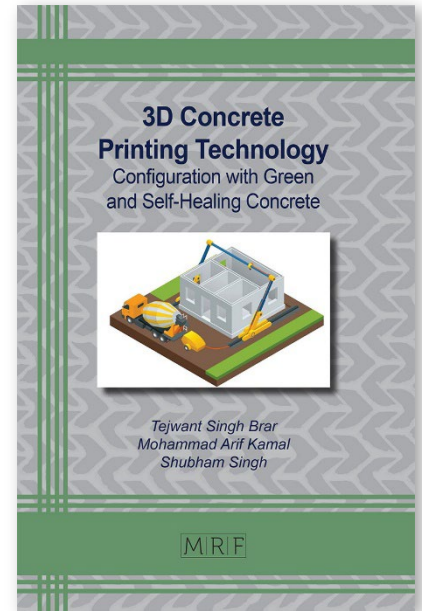
Configuration with Green and Self-Healing Concrete

**Tejwant Singh Brar, Mohammad Arif Kamal,
Shubham Singh**

Monograph / PDF eBook DRM Free

The book presents a detailed comparison between traditional construction techniques and 3D printing construction.

Keyword: 3D Concrete Printing, Cast-in-Situ Technology, Pre-Cast Technology, Pre-Stressed Technology, Post-Tension Technology, 3D-Printable Materials, Extrudability, Buildability, Workability, Open Time, Contact Strength between Layers, Aggregates, Water-Cement Ratio, Rheological and Mechanical Properties of 3D Printable Materials, Reinforcement Strategies, Printability Window, Cost Analysis, Green Concrete, Self-Healing Concrete



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Summary:

The book presents a detailed comparison between traditional construction techniques and 3D printing construction. The comparison focuses on four primary parameters: mechanism, composition, time and cost. The operational details of each technology (cast-in situ, pre-stress, post-tension) are reviewed and comparison criteria for all techniques are formulated. In conclusion, 3D printing seems to be well on its way to transform the whole construction industry.

Full Color Print Book Information

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