

Design of Fire-resistant Concrete Structures

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About the Book

Design of Fire-resistant Concrete Structures gives a thorough insight into the behaviour of concrete structures exposed to fire. It mixes theory, including physics and analysed data, with practice and shows design methods for beams, slabs, columns, and walls of fire-exposed cross-sections. It explains the physical processes that concrete materials experience when subjected to high temperatures, allowing the engineer to make an informed decision when choosing materials and designing a concrete structure.

This book includes coverage of:

- anchorage of reinforcement at fire
- explosive spalling of high-strength concrete
- how to make fire-safe concrete structures
- temperature movement and calculations
- thermal properties
- effective design for structures of high fire resistance;

Written by an author with over 40 years' experience in research and practice, this book contains essential knowledge required by consulting engineers, municipal authorities, producers of concrete elements and details, contractors and students tasked with designing and understanding concrete structures.

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