



## Conceptual and Structural Design of Buildings made of Lightweight and Infra-Lightweight Concrete

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Shaker Verlag Mai 2010, 2010. Buch. Book Condition: Neu. 24x17x cm. Neuware - Sometimes the need to reduce the weight of a structural element is not less important than increasing its strength, especially in heavy structures such as tall buildings and bridges where the structure's weight is one of the main problems that faces the designers. In spite of the increasing use and demand of Lightweight Concrete (LWC), the conceptual and structural design aspects for buildings made from LWC and Infra-Lightweight Concrete (ILWC) have not been adequately explained. Issues such as element dimensions, connections, and reinforcement types and details as well as short and long-term deformations and dynamic behaviour for LWC structures should be covered in up-to-date codes. Therefore, this study deals with conceptual and structural design of buildings made from LWC and ILWC and generally consists of two main objectives: - Development and production of new mixtures for LWC and ILWC with minimized dry density and very good mechanical and physical properties. - The ability to apply and involve these new materials in the construction field through intensive series of experimental tests on different structural elements and connections under static and dynamic loads. In order to achieve the first objective...



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