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Preliminary Design of High-Rise Buildings in Non-Seismic Regions (Paperback)

By Dr Niall F Macalevey

Createspace, United States, 2014. Paperback. Book Condition: New. 214 x 138 mm. Language: English . Brand New Book ***** Print on Demand *****.High-rise buildings continue to be built in increasing numbers throughout the world. However, they quickly become impractically expensive if structural needs are not considered early. Similarly attempting to build an irrational design can waste a lot of money. It has been said that 50 of the cost of the structural frame costs are affected by preliminary design, whereas detailed design (e.g. refinement of reinforcement in a reinforced concrete structure) affects a small percentage only. This book discusses what should be considered at the preliminary design stage of a high-rise. The information can also be used in the checking of designs produced by computer. The focus is on European design practice. The discussion includes the following: the origin of lateral loads; vortex shedding, lateral load resisting systems; effect of wind load on tall buildings; construction tolerances; shear wall layouts; basic acceleration limits; the importance of the P-delta phenomenon. Gravity systems for high-rises are no different to those of low-rise buildings so little time is spent discussing these. Although tall buildings are commonly constructed using steel or composite construction, this...



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