



Structural Design of High Rise Buildings: Detailed Background, Evolution, Analysis and Design of High Rise Multi Storey Reinforced Concrete and Structural Steel Buildings

By Dr. RAJA RIZWAN HUSSAIN

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With the passage of time and advancement in technology, people headed to cities from villages in pursuit of better occupations and luxurious lifestyles. As the cities ran out of space, it became problematic to accommodate the ever-increasing population. In this time of dilemma, civil engineers rose to the occasion and faced the challenge of providing accommodation to a large number of citizens in a limited space, defiantly. Hence, the proposal of high-rise buildings was put forward. Some decades back, there were no softwares to carry out the analysis and design of high-rise buildings. With the progress of time, as computer softwares were developed, a new era of civil engineering dawned, which made it possible to analyze and design high-rise buildings. High-rise buildings are, however, susceptible to earthquakes. In addition, the effect of wind load also becomes more & more prominent with the increase in height of a structure. Therefore, precise analysis & design of such a structure should be carried out in order to avoid any future catastrophe which is the objective of writing this book.

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- Sales Rank: #1581389 in Books
- Brand: Brand: VDM Verlag Dr. Müller
- Published on: 2010-08-23
- Original language: English
- Number of items: 1
- Dimensions: 8.66" h x .50" w x 5.91" l, .72 pounds
- Binding: Paperback
- 220 pages

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Editorial Review

About the Author

Dr. Raja Rizwan Hussain received his Ph.D and M.Sc from the University of Tokyo, Japan for which he was ranked outstanding and awarded medal and prize for best research thesis. He also completed his Ph.D in a record short time period of just 2 years. Now he is working as Asst. Professor at King Saud University, Saudi Arabia.

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