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A Survey on concepts of design and executing of Superframe RC earthquake proof Structures

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GRIN Verlag Mai 2016, 2016. Taschenbuch. Condition: Neu. Neuware - Project Report from the year 2015 in the subject Engineering - Civil Engineering, Islamic Azad University (Central Teheran Branch), course: Bachelor's of science, language: Arabic, abstract: A super frame structural system with passive energy dissipation devices (Super-RC frame system) has been developed and applied to a high-rise residential tower. The proposed system is composed of core walls, hat beams incorporated into the top level, outer columns and viscous dampers vertically installed between the tips of the hat beams and the outer columns. During an earthquake, the hat beams and outer columns act as outriggers and reduce the overturning moment in the core, and the installed dampers also reduce the moment and the lateral deflection of the structure. This innovative system can eliminate inner beams and inner columns on each floor, and thereby provide buildings with column-free floor space even in highly seismic regions. A 29-story reinforced concrete building incorporating this system has been designed and its structural safety has been verified. 52 pp. Arabisch.



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