



## Improving the Earthquake Resilience of Buildings

By Izuru Takewaki

Springer London Ltd. Hardcover. Condition: New. 324 pages. Dimensions: 9.2in. x 6.3in. x 0.9in. Engineers are always interested in the worst-case scenario. One of the most important and challenging missions of structural engineers may be to narrow the range of unexpected incidents in building structural design. Redundancy, robustness and resilience play an important role in such circumstances. Improving the Earthquake Resilience of Buildings: The worst case approach discusses the importance of worst-scenario approach for improved earthquake resilience of buildings and nuclear reactor facilities. Improving the Earthquake Resilience of Buildings: The worst case approach consists of two parts. The first part deals with the characterization and modeling of worst or critical ground motions on inelastic structures and the related worst-case scenario in the structural design of ordinary simple building structures. The second part of the book focuses on investigating the worst-case scenario for passively controlled and base-isolated buildings. This allows for detailed consideration of a range of topics including: A consideration of damage of building structures in the critical excitation method for improved building-earthquake resilience, A consideration of uncertainties of structural parameters in structural control and base-isolation for improved building-earthquake resilience, and New insights in structural design of super high-rise buildings under long-period...



**READ ONLINE**  
[ 7.56 MB ]

### Reviews

*Very useful for all group of people. It is amongst the most incredible pdf i actually have read through. Its been written in an extremely straightforward way and it is just right after i finished reading through this pdf by which basically modified me, change the way i think.*

-- Felicia Nikolaus

*These sorts of ebook is the ideal book offered. It can be written in simple terms rather than confusing. I discovered this pdf from my dad and i advised this publication to understand.*

-- Mr. Alejandrin Murphy PhD