



Best Practices for Reducing the Potential for Progressive Collapse in Buildings

By NIST

CreateSpace Independent Publishing Platform. Paperback. Condition: New. This item is printed on demand. 218 pages. Dimensions: 11.0in. x 8.5in. x 0.5in. This document is intended to provide owners and practicing engineers with current best practices to reduce the likelihood of progressive collapse of buildings in the event of abnormal loading. The report includes a discussion of an acceptable risk approach to progressive collapse, which involves defining the threat, event control, and structural design to resist postulated event. Practical means for reducing risk for new and existing buildings are presented. An extensive review is provided of the design methods used to enhance a buildings resistance to progressive collapse. These include the indirect method (providing sufficient tie forces), the specific local resistance method (designing key elements to withstand abnormal loads), and the alternate load path method (allowing for redistribution of load in the event of the loss of a key member). Design considerations for different structural materials are summarized. The methodology for evaluating and mitigating progressive collapse potential in existing buildings is also discussed. Three appendices provide supporting information. Appendix A presents a worldwide review of progressive collapse provisions in various national design standards. Appendix B identifies knowledge gaps related to progressive collapse...



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Reviews

Thorough guideline! Its this type of good read. It is really simplistic but shocks from the 50 percent from the publication. It is extremely difficult to leave it before concluding, once you begin to read the book.

-- **Sallie Wiegand**

I just started out reading this ebook. I could comprehend every little thing out of this written e book. I am pleased to inform you that this is actually the very best publication i have read through inside my personal life and could be he best ebook for ever.

-- **Antonia Orn IV**