



# Forensic Structural Engineering Handbook

*Robert Ratay*

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**Forensic Structural Engineering Handbook** Robert Ratay

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- Design and construction safety codes, standards, and regulations
- Standard of care and duty to perform
- First steps and legal concerns after a failure
- Engineering investigation of failures
- Origins and causes of failures
- Loads and hazards
- Design errors, construction defects, and project miscommunication
- Defects, deterioration, and durability
- Mechanisms and analyses of failures in steel, concrete, masonry, timber, and temporary structures; building envelope; and structural foundations
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