

# Optimization of Design for Better Structural Capacity

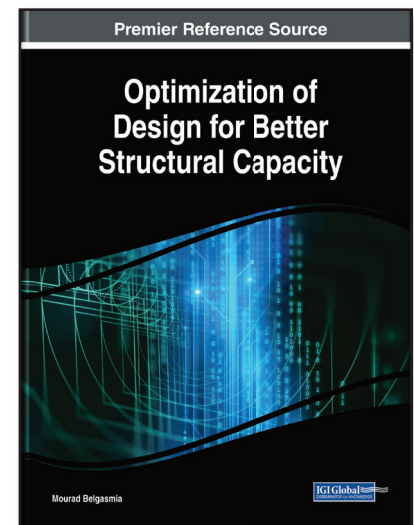
Part of the Advances in Civil and Industrial Engineering Book Series

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## Description:

Despite the development of advanced methods, models, and algorithms, optimization within structural engineering remains a primary method for overcoming potential structural failures. With the overarching goal to improve capacity, limit structural damage, and assess the structural dynamic response, further improvements to these methods must be entertained.

**Optimization of Design for Better Structural Capacity** is an essential reference source that discusses the advancement and augmentation of optimization designs for better behavior of structure under different types of loads, as well as the use of these advanced designs in combination with other methods in civil engineering. Featuring research on topics such as industrial software, geotechnical engineering, and systems optimization, this book is ideally designed for architects, professionals, researchers, engineers, and academicians seeking coverage on advanced designs for use in civil engineering environments.



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## Topics Covered:

- Diffusion Model
- Geotechnical Engineering
- Heuristics Algorithms
- Industrial Software
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- Site Planning
- Soil Structure Effect
- Structural Design Criteria
- Structural Health Monitoring
- Systems Optimization

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