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Structural control represents a high technology proposal for civil engineering innovation. This book collects the invited papers presented at the 3rd International Workshop on Structural Control and Seismic Isolation (ISCS 2007) held in Hong Kong on 4-6 December 2002. The two volumes of proceedings contain 9 invited keynote papers, 72 papers delivered by 11 teams, and 12 posters. The book presents an overview of the current state of the art in structural control for civil and infrastructure engineering. The geographical coverage and the high quality of the invited speaker's contributions make the book a unique and valuable resource.

The book is divided into three parts: Part 1 includes invited keynote papers and presentations, Part 2 contains invited papers and presentations, and Part 3 contains contributed papers and presentations.

The book covers a wide range of topics related to structural control, including:
- Seismic isolation technologies and systems
- Active control methods and systems
- Smart materials and systems
- Energy dissipation and passive control systems
- Advanced control strategies for civil engineering structures
- Applications in various engineering disciplines
- Case studies and applications in real-world projects

The book is intended for researchers, engineers, and students in the field of civil engineering, particularly those interested in the latest developments in structural control and seismic isolation technologies.
robustness evaluation of elastic-plastic base-isolated high-rise buildings under resonant near-fault ground motions. The robustness function was introduced to evaluate quantitatively the robustness of elastic-plastic base-isolated high-rise buildings. The fourth article is an extension of the previously proposed energy balance approach to a bilinear elastic-plastic single-degree-of-freedom system under a long-duration sinusoidal ground motion. A historical difficulty in nonlinear vibration posed by Caughey (1960) and Iwan (1961) has been overcome in a smart manner after half a century. The approach presented in this eBook, together with the previous eBooks, is an epoch-making accomplishment to open the door for simpler and deeper understanding of structural reliability and resilience of built environments in the elastic-plastic and nonlinear range.

Smart Structures Franklin Y. Cheng 2008-02-25 An innovative concept, smart structural systems have proven to be extremely effective in absorbing damaging energy and/or counteracting potentially devastating force, thus limiting structural collapse and subsequent injury. As this technology rapidly evolves, there is an ever-increasing need for an authoritative reference that will allow those in t

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