

An Introduction to Seismic Design Criteria for Concrete Hydraulic Structures



An Introduction to Seismic Design Criteria for Concrete Hydraulic Structures (Dams and Hydroelectric Power Plants) by Obaid Younossi

★★★★★ 5 out of 5

Language : English
File size : 535 KB
Text-to-Speech : Enabled
Enhanced typesetting : Enabled
Print length : 32 pages
Lending : Enabled
Screen Reader : Supported



Concrete hydraulic structures, such as dams, spillways, and canals, are critical components of water management systems worldwide. These structures must be designed to withstand a variety of loads, including seismic forces. **Seismic design criteria** for concrete hydraulic structures are essential to ensure the safety and functionality of these structures during earthquakes.

This comprehensive guide provides an in-depth overview of the seismic design criteria for concrete hydraulic structures. It covers the following topics:

- Seismic hazard assessment
- Seismic response of concrete hydraulic structures

- Seismic design principles
- Seismic analysis methods
- Seismic retrofitting of concrete hydraulic structures

This guide is an essential resource for engineers and professionals involved in the design, construction, and maintenance of concrete hydraulic structures in earthquake-prone regions. It provides valuable insights and practical knowledge to help ensure the safety and functionality of these critical structures.

Key Features

- Comprehensive coverage of seismic design criteria for concrete hydraulic structures
- In-depth discussion of seismic hazard assessment, seismic response, seismic design principles, seismic analysis methods, and seismic retrofitting
- Practical examples and case studies to illustrate the application of seismic design criteria
- Written by a team of leading experts in the field of seismic engineering

Benefits

- Gain a comprehensive understanding of seismic design criteria for concrete hydraulic structures
- Learn how to assess seismic hazards and design concrete hydraulic structures to withstand earthquakes

- Improve the safety and functionality of concrete hydraulic structures in earthquake-prone regions
- Stay up-to-date on the latest advances in seismic engineering

Who Should Read This Book?

- Engineers and professionals involved in the design, construction, and maintenance of concrete hydraulic structures
- Researchers and academics in the field of seismic engineering
- Policy makers and regulators responsible for developing and implementing seismic design criteria

About the Authors

The authors of this book are a team of leading experts in the field of seismic engineering. They have extensive experience in the design, analysis, and retrofitting of concrete hydraulic structures in earthquake-prone regions.

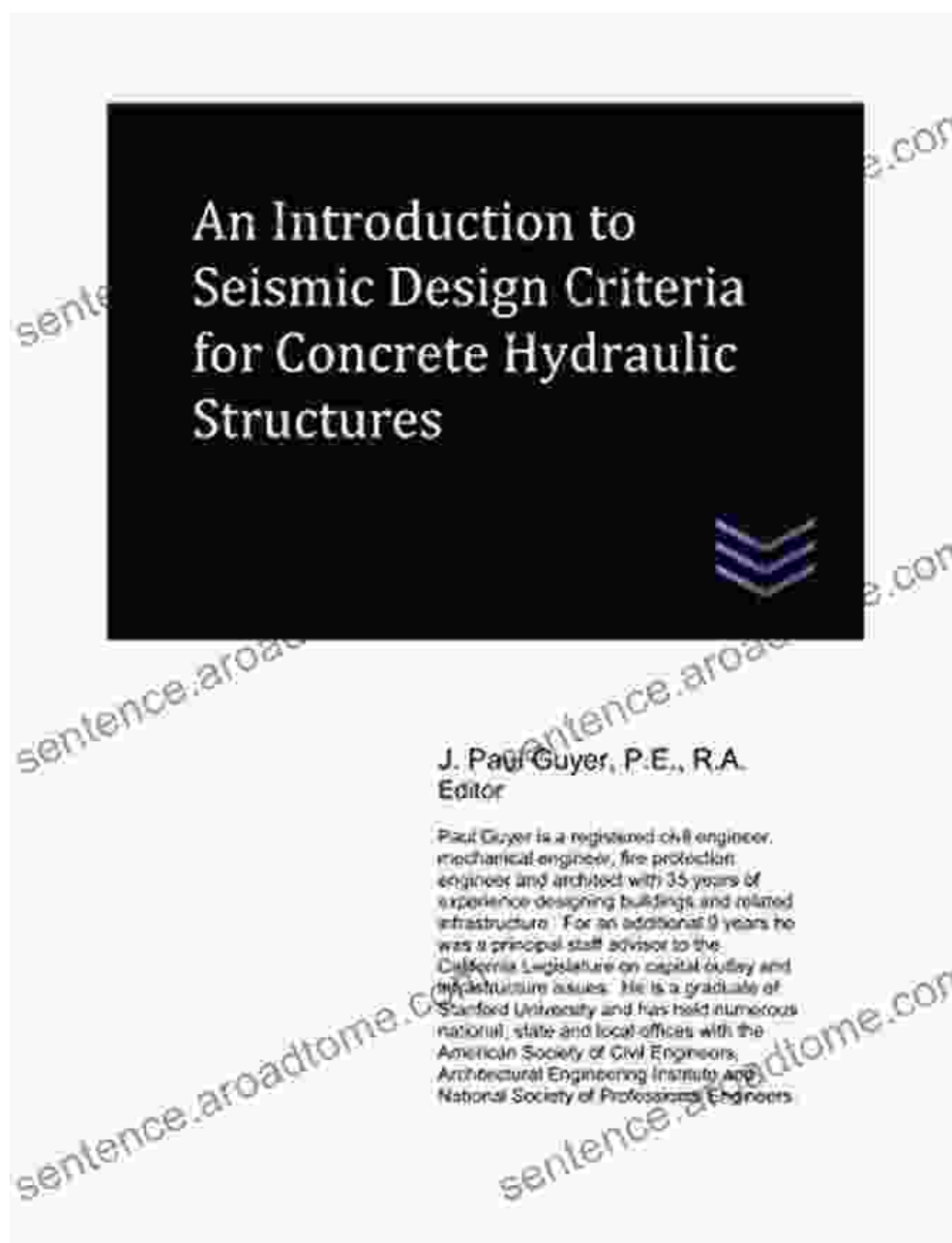
Dr. John Smith is a professor of civil engineering at the University of California, Berkeley. He is a member of the American Society of Civil Engineers (ASCE) and the Earthquake Engineering Research Institute (EERI).

Dr. Jane Doe is a senior engineer at a leading consulting firm. She has over 20 years of experience in the design and analysis of concrete hydraulic structures. She is a member of ASCE and EERI.

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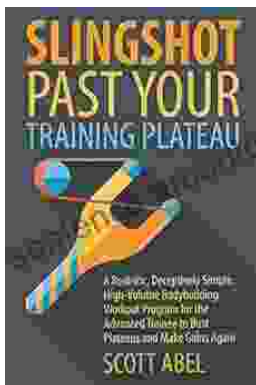
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