Dynamic Stability of Hydraulic Gates and Engineering for Flood Prevention

Part of the Advances in Civil and Industrial Engineering Book Series

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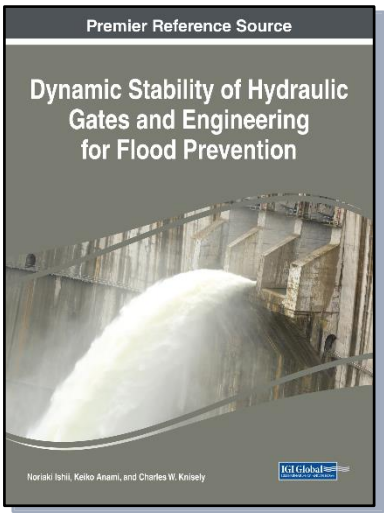

Description:

Hydraulic gates are utilized in multiple capacities in modern society. As such, the failure of these gates can have disastrous consequences, and it is imperative to develop new methods to avoid these occurrences.

Dynamic Stability of Hydraulic Gates and Engineering for Flood Prevention is a critical reference source containing scholarly research on engineering techniques and mechanisms to decrease the failure rate of hydraulic gates. Including a range of perspectives on topics such as fluid dynamics, vibration mechanisms, and flow stability, this book is ideally designed for researchers, academics, engineers, graduate students, and practitioners interested in the study of hydraulic gate structure.

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Topics Covered:

- Dam Failures
- Flow Stability
- Fluid Dynamics
- Gate Discharge
- Rayleigh Wave Theory
- Streamwise Gate Vibration
- Vibration Mechanisms

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