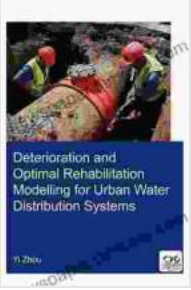
Deterioration and Optimal Rehabilitation Modelling for Urban Water Distribution: Securing Your City's Vital Lifeline

Water is the lifeblood of any city. It supports our daily lives, our businesses, and our industries. But what happens when the infrastructure that delivers this precious resource begins to deteriorate?



Deterioration and Optimal Rehabilitation Modelling for Urban Water Distribution Systems (IHE Delft PhD Thesis Series) by Jay da Silva

★★★★★ 5 out of 5

Language	: English
File size	: 5656 KB
Screen Reader	: Supported
Print length	: 248 pages
Hardcover	: 510 pages
Item Weight	: 1.95 pounds
Dimensions	: 6.14 x 1.13 x 9.21 inches

Aging water pipes, aging pumps, and aging treatment plants are a growing problem in cities around the world. These assets are essential for delivering clean, safe water to our homes and businesses, but they are also aging and in need of repair or replacement.

The problem of deteriorating water infrastructure is only going to get worse in the years to come. As our cities grow and our population ages, the

demand for water will only increase. At the same time, the infrastructure that delivers this water is aging and becoming more vulnerable to failure.

So what can be done? How can we ensure that our cities have a reliable and sustainable water supply in the future?

One important step is to develop accurate models of how our water infrastructure will deteriorate over time. These models can help us to identify the assets that are most at risk of failure and to prioritize our rehabilitation efforts.

Another important step is to develop optimal rehabilitation strategies. These strategies should consider the condition of the assets, the risks of failure, and the cost of rehabilitation. By optimizing our rehabilitation efforts, we can ensure that our water infrastructure is repaired or replaced in the most cost-effective way possible.

The book "Deterioration and Optimal Rehabilitation Modelling for Urban Water Distribution" provides a comprehensive overview of the latest techniques and strategies for assessing and optimizing the resilience of urban water distribution networks. This book is an essential resource for water utility managers, engineers, and planners who are responsible for ensuring the safety and reliability of their city's water supply.

What's Inside the Book?

The book is divided into three parts:

1. **Part 1: Deterioration Modelling**
2. **Part 2: Optimal Rehabilitation Modelling**

3. **Part 3: Case Studies**

Part 1 covers the latest techniques for modelling the deterioration of water infrastructure. These techniques can be used to predict the remaining useful life of assets and to identify the factors that are contributing to their deterioration.

Part 2 covers the latest techniques for developing optimal rehabilitation strategies. These strategies consider the condition of the assets, the risks of failure, and the cost of rehabilitation. By optimizing our rehabilitation efforts, we can ensure that our water infrastructure is repaired or replaced in the most cost-effective way possible.

Part 3 presents case studies of how deterioration and optimal rehabilitation modelling has been used to improve the resilience of urban water distribution networks. These case studies provide valuable insights into the challenges and opportunities of implementing these techniques in real-world settings.

Who Should Read This Book?

This book is an essential resource for water utility managers, engineers, and planners who are responsible for ensuring the safety and reliability of their city's water supply. It is also a valuable resource for researchers and students who are interested in learning more about the latest techniques for assessing and optimizing the resilience of urban water distribution networks.

About the Authors

The book is authored by a team of leading experts in the field of water infrastructure management. The authors have extensive experience in developing and applying deterioration and optimal rehabilitation modelling techniques to improve the resilience of urban water distribution networks.

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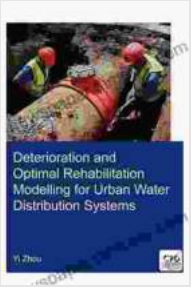

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