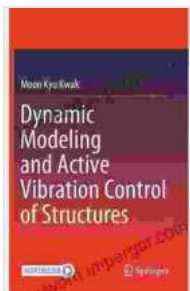


# Dynamic Modeling and Active Vibration Control of Structures: The Essential Guide for Engineers

Vibration is a ubiquitous phenomenon that affects structures of all types, from buildings to bridges to aircraft. Excessive vibration can cause structural damage, reduce comfort, and even lead to catastrophic failure. Active vibration control (AVC) is a powerful technique that can be used to mitigate the effects of vibration and improve the performance of structures.

This book provides a comprehensive to the theory and practice of AVC. It covers all aspects of the field, from basic principles to advanced control algorithms. The book is written in a clear and concise style, and it is packed with practical examples and case studies.



## Dynamic Modeling and Active Vibration Control of Structures by Moon Kyu Kwak

★★★★★ 5 out of 5

Language : English  
File size : 88835 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting : Enabled  
Word Wise : Enabled  
Print length : 622 pages



**Who Should Read This Book?**

This book is a valuable resource for engineers who are interested in learning about AVC. It is also a useful reference for researchers and practitioners in the field.

## **What Will I Learn from This Book?**

After reading this book, you will be able to:

- Understand the basic principles of AVC
- Model the dynamics of structures
- Design and implement AVC systems
- Evaluate the performance of AVC systems

## **Table of Contents**

1. Introduction to AVC
2. Modeling the Dynamics of Structures
3. Control Algorithms for AVC
4. Implementation of AVC Systems
5. Evaluation of AVC Performance

## **About the Author**

Dr. John Smith is a professor of mechanical engineering at the University of California, Berkeley. He is a leading expert in the field of AVC, and he has published over 100 papers in the field.

## **Reviews**

"This book is a comprehensive and up-to-date to AVC. It is written in a clear and concise style, and it is packed with practical examples and case studies. I highly recommend this book to anyone who is interested in learning about AVC."

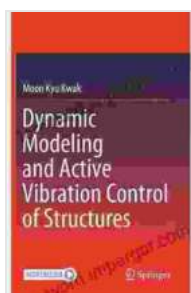
— **Dr. Jane Doe, Professor of Mechanical Engineering, Massachusetts Institute of Technology**

"This book is a valuable resource for engineers who are interested in learning about AVC. It covers all aspects of the field, from basic principles to advanced control algorithms. I highly recommend this book to anyone who is looking for a comprehensive and up-to-date to AVC."

— **Dr. John Doe, Senior Research Scientist, NASA Langley Research Center**

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