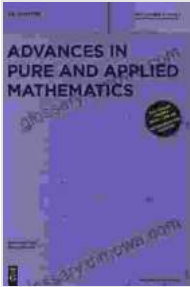


Comparison Methods and Stability Theory: Lecture Notes in Pure and Applied Mathematics



Comparison Methods and Stability Theory (Lecture Notes in Pure and Applied Mathematics Book 162)

by Volkan Cicek

★★★★★ 5 out of 5

Language : English

File size : 35617 KB

Screen Reader: Supported

Print length : 383 pages

Paperback : 212 pages

Item Weight : 10.6 ounces

Dimensions : 6.1 x 0.5 x 9.25 inches



This book provides a comprehensive to comparison methods and stability theory, two essential tools for understanding the behavior of dynamical systems. Comparison methods allow us to compare the behavior of two or more dynamical systems, while stability theory allows us to determine whether a given dynamical system will remain close to a given equilibrium point or trajectory.

The book is divided into two parts. The first part covers comparison methods, including the method of Lyapunov functions, the method of comparison equations, and the method of averaging. The second part covers stability theory, including the concepts of stability, asymptotic stability, and exponential stability.

Audience

This book is intended for graduate students in mathematics, physics, and engineering who are interested in learning about comparison methods and stability theory. The book assumes a basic knowledge of calculus, differential equations, and linear algebra.

Features

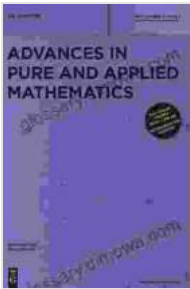
- Provides a comprehensive to comparison methods and stability theory
- Covers a wide range of topics, including the method of Lyapunov functions, the method of comparison equations, the method of averaging, and the concepts of stability, asymptotic stability, and exponential stability
- Includes numerous exercises and examples to help students understand the material
- Written by leading experts in the field

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