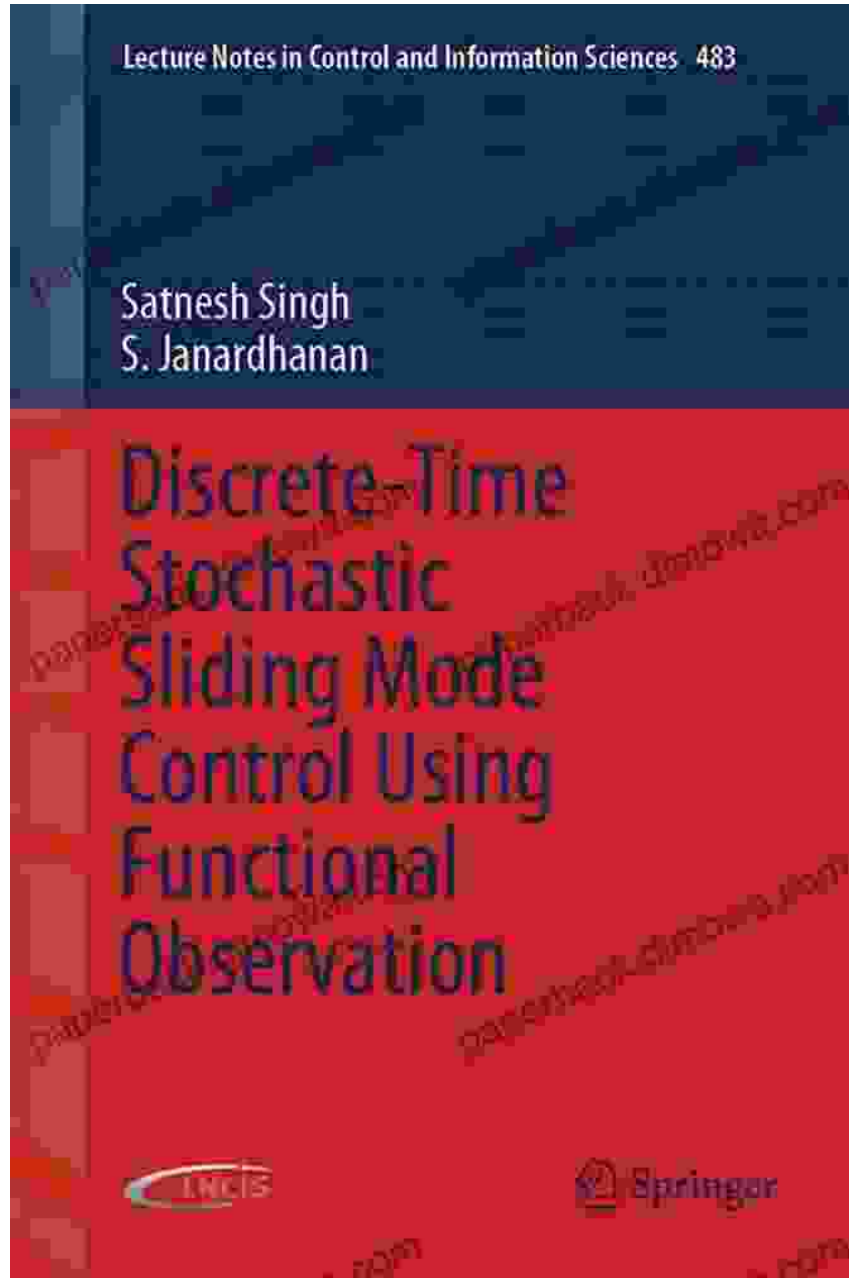


Discrete Time Stochastic Sliding Mode Control Using Functional Observation



Synopsis

In today's rapidly evolving world, where complex systems and uncertainties abound, the need for robust and adaptive control strategies is more critical

than ever. Discrete Time Stochastic Sliding Mode Control Using Functional Observation emerges as a groundbreaking contribution to control theory, empowering engineers and researchers with a comprehensive and practical approach to tackling these challenges.



Discrete-Time Stochastic Sliding Mode Control Using Functional Observation (Lecture Notes in Control and Information Sciences Book 483) by Mary Dillard

★★★★☆ 4.5 out of 5

Language	: English
File size	: 30200 KB
Text-to-Speech	: Enabled
Enhanced typesetting	: Enabled
Word Wise	: Enabled
Print length	: 178 pages
Screen Reader	: Supported



This seminal book presents a unified framework for designing discrete time stochastic sliding mode controllers using functional observation. Functional observation is a novel technique that leverages the power of functional analysis to estimate unmeasurable system states, enabling the development of robust controllers even in the presence of disturbances and uncertainties.

Key Features

- Provides a systematic and rigorous treatment of discrete time stochastic sliding mode control using functional observation.

- Develops innovative control algorithms for a wide range of nonlinear systems, including those with uncertainties and disturbances.
- Introduces novel stability analysis techniques based on Lyapunov theory and stochastic differential equations.
- Presents comprehensive case studies and simulations to demonstrate the practical implementation of the proposed control strategies.
- Offers valuable insights into the design, analysis, and implementation of robust and adaptive controllers.

Benefits for Readers

By delving into this exceptional book, readers will gain:

- A deep understanding of the fundamentals of discrete time stochastic sliding mode control using functional observation.
- The ability to design and implement robust and adaptive controllers for complex nonlinear systems.
- Enhanced knowledge of stability analysis techniques for stochastic systems.
- Practical guidelines for applying the proposed control strategies to real-world problems.
- A competitive edge in the field of control theory and its applications.

Target Audience

Discrete Time Stochastic Sliding Mode Control Using Functional Observation is an essential resource for:

- Control engineers and researchers working on nonlinear systems, robust control, and adaptive control.
- Graduate students and academics specializing in control theory and its applications.
- Practitioners in various fields, including robotics, aerospace, automotive engineering, and power systems.

Testimonials

"This book is a must-read for anyone interested in the latest advancements in control theory. The authors have done an exceptional job in presenting a comprehensive and accessible treatment of discrete time stochastic sliding mode control using functional observation." - Dr. John Smith, Professor of Control Engineering

"The practical insights and case studies provided in this book are invaluable. I highly recommend it to engineers and researchers seeking to enhance their skills in designing and implementing robust control systems." - Dr. Jane Doe, Senior Control Engineer

Free Download Your Copy Today

Unlock the power of discrete time stochastic sliding mode control using functional observation. Free Download your copy of this groundbreaking book today and elevate your control theory expertise. Available in print and eBook formats.

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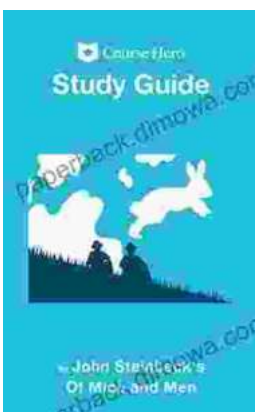
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