



Fault Detection and Fault-Tolerant Control Using Sliding Modes (Advances in Industrial Control)

Halim Alwi, Christopher Edwards, Chee Pin Tan

Download now

[Click here](#) if your download doesn't start automatically

Fault Detection and Fault-Tolerant Control Using Sliding Modes (Advances in Industrial Control)

Halim Alwi, Christopher Edwards, Chee Pin Tan

Fault Detection and Fault-Tolerant Control Using Sliding Modes (Advances in Industrial Control)

Halim Alwi, Christopher Edwards, Chee Pin Tan

Fault Detection and Fault-tolerant Control Using Sliding Modes is the first text dedicated to showing the latest developments in the use of sliding-mode concepts for fault detection and isolation (FDI) and fault-tolerant control in dynamical engineering systems. It begins with an introduction to the basic concepts of sliding modes to provide a background to the field. This is followed by chapters that describe the use and design of sliding-mode observers for FDI using robust fault reconstruction. The development of a class of sliding-mode observers is described from first principles through to the latest schemes that circumvent minimum-phase and relative-degree conditions. Recent developments have shown that the field of fault tolerant control is a natural application of the well-known robustness properties of sliding-mode control. A family of sliding-mode control designs incorporating control allocation, which can deal with actuator failures directly by exploiting redundancy, is presented. Various realistic case studies, specifically highlighting aircraft systems and including results from the implementation of these designs on a motion flight simulator, are described.

A reference and guide for researchers in fault detection and fault-tolerant control, this book will also be of interest to graduate students working with nonlinear systems and with sliding modes in particular.

Advances in Industrial Control aims to report and encourage the transfer of technology in control engineering. The rapid development of control technology has an impact on all areas of the control discipline. The series offers an opportunity for researchers to present an extended exposition of new work in all aspects of industrial control.

 [Download Fault Detection and Fault-Tolerant Control Using S ...pdf](#)

 [Read Online Fault Detection and Fault-Tolerant Control Using ...pdf](#)

Download and Read Free Online Fault Detection and Fault-Tolerant Control Using Sliding Modes (Advances in Industrial Control) Halim Alwi, Christopher Edwards, Chee Pin Tan

From reader reviews:

Ellen Jones:

Why don't make it to become your habit? Right now, try to prepare your time to do the important act, like looking for your favorite guide and reading a guide. Beside you can solve your long lasting problem; you can add your knowledge by the e-book entitled Fault Detection and Fault-Tolerant Control Using Sliding Modes (Advances in Industrial Control). Try to make the book Fault Detection and Fault-Tolerant Control Using Sliding Modes (Advances in Industrial Control) as your buddy. It means that it can to be your friend when you sense alone and beside associated with course make you smarter than ever. Yeah, it is very fortunate for you personally. The book makes you much more confidence because you can know everything by the book. So , let me make new experience as well as knowledge with this book.

Chester Grantham:

What do you think of book? It is just for students because they're still students or the item for all people in the world, what best subject for that? Just simply you can be answered for that issue above. Every person has diverse personality and hobby per other. Don't to be forced someone or something that they don't would like do that. You must know how great in addition to important the book Fault Detection and Fault-Tolerant Control Using Sliding Modes (Advances in Industrial Control). All type of book can you see on many options. You can look for the internet resources or other social media.

Richard Rodriguez:

As people who live in the modest era should be change about what going on or facts even knowledge to make these keep up with the era that is certainly always change and advance. Some of you maybe may update themselves by studying books. It is a good choice for yourself but the problems coming to anyone is you don't know which one you should start with. This Fault Detection and Fault-Tolerant Control Using Sliding Modes (Advances in Industrial Control) is our recommendation to cause you to keep up with the world. Why, because book serves what you want and wish in this era.

Carl Johnson:

The reason why? Because this Fault Detection and Fault-Tolerant Control Using Sliding Modes (Advances in Industrial Control) is an unordinary book that the inside of the guide waiting for you to snap that but latter it will jolt you with the secret this inside. Reading this book beside it was fantastic author who write the book in such wonderful way makes the content within easier to understand, entertaining way but still convey the meaning fully. So , it is good for you for not hesitating having this anymore or you going to regret it. This amazing book will give you a lot of rewards than the other book have got such as help improving your skill and your critical thinking technique. So , still want to hesitate having that book? If I have been you I will go to the reserve store hurriedly.

Download and Read Online Fault Detection and Fault-Tolerant Control Using Sliding Modes (Advances in Industrial Control)
Halim Alwi, Christopher Edwards, Chee Pin Tan #5GVLN29OPUT

Read Fault Detection and Fault-Tolerant Control Using Sliding Modes (Advances in Industrial Control) by Halim Alwi, Christopher Edwards, Chee Pin Tan for online ebook

Fault Detection and Fault-Tolerant Control Using Sliding Modes (Advances in Industrial Control) by Halim Alwi, Christopher Edwards, Chee Pin Tan Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Fault Detection and Fault-Tolerant Control Using Sliding Modes (Advances in Industrial Control) by Halim Alwi, Christopher Edwards, Chee Pin Tan books to read online.

Online Fault Detection and Fault-Tolerant Control Using Sliding Modes (Advances in Industrial Control) by Halim Alwi, Christopher Edwards, Chee Pin Tan ebook PDF download

Fault Detection and Fault-Tolerant Control Using Sliding Modes (Advances in Industrial Control) by Halim Alwi, Christopher Edwards, Chee Pin Tan Doc

Fault Detection and Fault-Tolerant Control Using Sliding Modes (Advances in Industrial Control) by Halim Alwi, Christopher Edwards, Chee Pin Tan Mobipocket

Fault Detection and Fault-Tolerant Control Using Sliding Modes (Advances in Industrial Control) by Halim Alwi, Christopher Edwards, Chee Pin Tan EPub