



Symmetries and Semi-invariants in the Analysis of Nonlinear Systems

Laura Menini, Antonio Tornambè

Download now

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

Symmetries and Semi-invariants in the Analysis of Nonlinear Systems

Laura Menini, Antonio Tornambè

Symmetries and Semi-invariants in the Analysis of Nonlinear Systems Laura Menini, Antonio Tornambè

This book details the analysis of continuous- and discrete-time dynamical systems described by differential and difference equations respectively. Differential geometry provides the tools for this, such as first-integrals or orbital symmetries, together with normal forms of vector fields and of maps. A crucial point of the analysis is linearization by state immersion.

The theory is developed for general nonlinear systems and specialized for the class of Hamiltonian systems. By using the strong geometric structure of Hamiltonian systems, the results proposed are stated in a different, less complex and more easily comprehensible manner. They are applied to physically motivated systems, to demonstrate how much insight into known properties is gained using these techniques. Various control systems applications of the techniques are characterized including: computation of the flow of nonlinear systems; computation of semi-invariants; computation of Lyapunov functions for stability analysis and observer design.



[Download Symmetries and Semi-invariants in the Analysis of Nonli ...pdf](#)



[Read Online Symmetries and Semi-invariants in the Analysis of Non ...pdf](#)

Download and Read Free Online Symmetries and Semi-invariants in the Analysis of Nonlinear Systems Laura Menini, Antonio Tornambè

Download and Read Free Online Symmetries and Semi-invariants in the Analysis of Nonlinear Systems Laura Menini, Antonio Tornambè

From reader reviews:

Michelle Wilson:

The reserve with title Symmetries and Semi-invariants in the Analysis of Nonlinear Systems posesses a lot of information that you can find out it. You can get a lot of benefit after read this book. This particular book exist new expertise the information that exist in this reserve represented the condition of the world now. That is important to yo7u to learn how the improvement of the world. This particular book will bring you throughout new era of the internationalization. You can read the e-book on the smart phone, so you can read this anywhere you want.

Michael Due:

Reading a book to be new life style in this yr; every people loves to read a book. When you read a book you can get a wide range of benefit. When you read books, you can improve your knowledge, since book has a lot of information upon it. The information that you will get depend on what types of book that you have read. If you wish to get information about your examine, you can read education books, but if you act like you want to entertain yourself you can read a fiction books, this sort of us novel, comics, along with soon. The Symmetries and Semi-invariants in the Analysis of Nonlinear Systems provide you with new experience in reading a book.

Theresa Collins:

Don't be worry in case you are afraid that this book can filled the space in your house, you could have it in e-book approach, more simple and reachable. This kind of Symmetries and Semi-invariants in the Analysis of Nonlinear Systems can give you a lot of buddies because by you looking at this one book you have matter that they don't and make you actually more like an interesting person. This book can be one of one step for you to get success. This publication offer you information that probably your friend doesn't learn, by knowing more than various other make you to be great men and women. So , why hesitate? We should have Symmetries and Semi-invariants in the Analysis of Nonlinear Systems.

Randolph Urban:

As a university student exactly feel bored to be able to reading. If their teacher inquired them to go to the library as well as to make summary for some guide, they are complained. Just tiny students that has reading's heart and soul or real their leisure activity. They just do what the professor want, like asked to the library. They go to generally there but nothing reading significantly. Any students feel that studying is not important, boring and also can't see colorful pictures on there. Yeah, it is to be complicated. Book is very important to suit your needs. As we know that on this era, many ways to get whatever we really wish for. Likewise word says, many ways to reach Chinese's country. So , this Symmetries and Semi-invariants in the Analysis of Nonlinear Systems can make you sense more interested to read.

Download and Read Online Symmetries and Semi-invariants in the Analysis of Nonlinear Systems Laura Menini, Antonio Tornambè #P1ERUZX0M9B

Read Symmetries and Semi-invariants in the Analysis of Nonlinear Systems by Laura Menini, Antonio Tornambè for online ebook

Symmetries and Semi-invariants in the Analysis of Nonlinear Systems by Laura Menini, Antonio Tornambè 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 Symmetries and Semi-invariants in the Analysis of Nonlinear Systems by Laura Menini, Antonio Tornambè books to read online.

Online Symmetries and Semi-invariants in the Analysis of Nonlinear Systems by Laura Menini, Antonio Tornambè ebook PDF download

Symmetries and Semi-invariants in the Analysis of Nonlinear Systems by Laura Menini, Antonio Tornambè Doc

Symmetries and Semi-invariants in the Analysis of Nonlinear Systems by Laura Menini, Antonio Tornambè MobiPocket

Symmetries and Semi-invariants in the Analysis of Nonlinear Systems by Laura Menini, Antonio Tornambè EPub