



System Identification: Theory for the User (2nd Edition)

By Lennart Ljung

Download now

Read Online 

System Identification: Theory for the User (2nd Edition) By Lennart Ljung

Lennart Ljung's *System Identification: Theory for the User* is a complete, coherent description of the theory, methodology, and practice of System Identification. This completely revised Second Edition introduces subspace methods, methods that utilize frequency domain data, and general non-linear black box methods, including neural networks and neuro-fuzzy modeling. The book contains many new computer-based examples designed for Ljung's market-leading software, System Identification Toolbox for MATLAB. Ljung combines careful mathematics, a practical understanding of real-world applications, and extensive exercises. He introduces both black-box and tailor-made models of linear as well as non-linear systems, and he describes principles, properties, and algorithms for a variety of identification techniques.

 [Download System Identification: Theory for the User \(2nd Ed ...pdf](#)

 [Read Online System Identification: Theory for the User \(2nd ...pdf](#)

System Identification: Theory for the User (2nd Edition)

By Lennart Ljung

System Identification: Theory for the User (2nd Edition) By Lennart Ljung

Lennart Ljung's System Identification: Theory for the User is a complete, coherent description of the theory, methodology, and practice of System Identification. This completely revised Second Edition introduces subspace methods, methods that utilize frequency domain data, and general non-linear black box methods, including neural networks and neuro-fuzzy modeling. The book contains many new computer-based examples designed for Ljung's market-leading software, System Identification Toolbox for MATLAB. Ljung combines careful mathematics, a practical understanding of real-world applications, and extensive exercises. He introduces both black-box and tailor-made models of linear as well as non-linear systems, and he describes principles, properties, and algorithms for a variety of identification techniques.

System Identification: Theory for the User (2nd Edition) By Lennart Ljung Bibliography

- Sales Rank: #817821 in Books
- Published on: 1999-01-08
- Original language: English
- Number of items: 1
- Dimensions: 9.30" h x 1.50" w x 7.00" l, 2.42 pounds
- Binding: Hardcover
- 672 pages

 [Download System Identification: Theory for the User \(2nd Ed ...pdf](#)

 [Read Online System Identification: Theory for the User \(2nd ...pdf](#)

Download and Read Free Online System Identification: Theory for the User (2nd Edition) By Lennart Ljung

Editorial Review

From the Publisher

Describes the diverse area of identification algorithms within a coherent framework. An account of underlying principles, main theoretical results as well as algorithms and practical aspects. For Sr/Grad course or systems identification in EE, ME, CHE (usually taught by controls and systems people).

From the Back Cover

65669-4

The field's leading text, now completely updated.

Modeling dynamical systems — theory, methodology, and applications.

Lennart Ljung's *System Identification: Theory for the User* is a complete, coherent description of the theory, methodology, and practice of System Identification. This completely revised Second Edition introduces subspace methods, methods that utilize frequency domain data, and general non-linear black box methods, including neural networks and neuro-fuzzy modeling. The book contains many new computer-based examples designed for Ljung's market-leading software, System Identification Toolbox for MATLAB.

Ljung combines careful mathematics, a practical understanding of real-world applications, and extensive exercises. He introduces both black-box and tailor-made models of linear as well as non-linear systems, and he describes principles, properties, and algorithms for a variety of identification techniques:

- Nonparametric time-domain and frequency-domain methods.
- Parameter estimation methods in a general prediction error setting.
- Frequency domain data and frequency domain interpretations.
- Asymptotic analysis of parameter estimates.
- Linear regressions, iterative search methods, and other ways to compute estimates.
- Recursive (adaptive) estimation techniques.

Ljung also presents detailed coverage of the key issues that can make or break system identification projects, such as defining objectives, designing experiments, controlling the bias distribution of transfer-function estimates, and carefully validating the resulting models.

The first edition of System Identification has been the field's most widely cited reference for over a decade. This new edition will be the new text of choice for anyone concerned with system identification theory and practice.

About the Author

LENNART LJUNG is Professor of the Chair of Automatic Control in the Department of Electrical Engineering, Linköping University, Sweden. He is the author of nine books and over 100 articles in refereed international journals, as well as the author of the field's leading software package, System Identification

Toolbox for MATLAB.

Users Review

From reader reviews:

David Butler:

Within other case, little persons like to read book System Identification: Theory for the User (2nd Edition). You can choose the best book if you love reading a book. Provided that we know about how is important a new book System Identification: Theory for the User (2nd Edition). You can add knowledge and of course you can around the world by just a book. Absolutely right, since from book you can learn everything! From your country until foreign or abroad you can be known. About simple factor until wonderful thing you are able to know that. In this era, we are able to open a book or perhaps searching by internet product. It is called e-book. You can utilize it when you feel bored to go to the library. Let's examine.

Sandra Yunker:

The book System Identification: Theory for the User (2nd Edition) can give more knowledge and also the precise product information about everything you want. Why must we leave a good thing like a book System Identification: Theory for the User (2nd Edition)? Wide variety you have a different opinion about e-book. But one aim in which book can give many facts for us. It is absolutely proper. Right now, try to closer with the book. Knowledge or info that you take for that, you could give for each other; you may share all of these. Book System Identification: Theory for the User (2nd Edition) has simple shape however you know: it has great and big function for you. You can look the enormous world by open and read a guide. So it is very wonderful.

Lyle Morales:

Hey guys, do you wishes to finds a new book to study? May be the book with the subject System Identification: Theory for the User (2nd Edition) suitable to you? The actual book was written by renowned writer in this era. The actual book untitled System Identification: Theory for the User (2nd Edition) is a single of several books in which everyone read now. That book was inspired many people in the world. When you read this reserve you will enter the new age that you ever know before. The author explained their plan in the simple way, and so all of people can easily to comprehend the core of this guide. This book will give you a lots of information about this world now. So that you can see the represented of the world in this particular book.

Angela Yoder:

The book System Identification: Theory for the User (2nd Edition) has a lot info on it. So when you check out this book you can get a lot of profit. The book was written by the very famous author. Mcdougal makes some research ahead of write this book. That book very easy to read you may get the point easily after perusing this book.

Download and Read Online System Identification: Theory for the User (2nd Edition) By Lennart Ljung #AQ3561ZI0TL

Read System Identification: Theory for the User (2nd Edition) By Lennart Ljung for online ebook

System Identification: Theory for the User (2nd Edition) By Lennart Ljung 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 System Identification: Theory for the User (2nd Edition) By Lennart Ljung books to read online.

Online System Identification: Theory for the User (2nd Edition) By Lennart Ljung ebook PDF download

System Identification: Theory for the User (2nd Edition) By Lennart Ljung Doc

System Identification: Theory for the User (2nd Edition) By Lennart Ljung Mobipocket

System Identification: Theory for the User (2nd Edition) By Lennart Ljung EPub

AQ3561ZI0TL: System Identification: Theory for the User (2nd Edition) By Lennart Ljung