



 Get Print Book

Data Fitting and Uncertainty: A Practical Introduction to Weighted Least Squares and Beyond

By Tilo Strutz



Download



Read Online

Data Fitting and Uncertainty: A Practical Introduction to Weighted Least Squares and Beyond By Tilo Strutz

The subject of data fitting bridges many disciplines, especially those traditionally dealing with statistics like physics, mathematics, engineering, biology, economy, or psychology, but also more recent fields like computer vision. This book addresses itself to engineers and computer scientists or corresponding undergraduates who are interested in data fitting by the method of least-squares approximation, but have no or only limited pre-knowledge in this field. Experienced readers will find in it new ideas or might appreciate the book as a useful work of reference. Familiarity with basic linear algebra is helpful though not essential as the book includes a self-contained introduction and presents the method in a logical and accessible fashion. The primary goal of the text is to explain how data fitting via least squares works. The reader will find that the emphasis of the book is on practical matters, not on theoretical problems. In addition, the book enables the reader to design own software implementations with application-specific model functions based on the comprehensive discussion of several examples. The text is accompanied with working source code in ANSI-C for fitting with weighted least squares including outlier detection. Among others the book covers following topics * fitting of linear and nonlinear functions with one- or multi-dimensional variables * weighted least-squares * outlier detection * evaluation of the fitting results * different optimisation strategies * combined fitting of different model functions * total least-squares approach with multi-dimensional conditions



[Download Data Fitting and Uncertainty: A Practical Introduc ...pdf](#)



[Read Online Data Fitting and Uncertainty: A Practical Introd ...pdf](#)

Data Fitting and Uncertainty: A Practical Introduction to Weighted Least Squares and Beyond

By Tilo Strutz

Data Fitting and Uncertainty: A Practical Introduction to Weighted Least Squares and Beyond By Tilo Strutz

The subject of data fitting bridges many disciplines, especially those traditionally dealing with statistics like physics, mathematics, engineering, biology, economy, or psychology, but also more recent fields like computer vision. This book addresses itself to engineers and computer scientists or corresponding undergraduates who are interested in data fitting by the method of least-squares approximation, but have no or only limited pre-knowledge in this field. Experienced readers will find in it new ideas or might appreciate the book as a useful work of reference. Familiarity with basic linear algebra is helpful though not essential as the book includes a self-contained introduction and presents the method in a logical and accessible fashion. The primary goal of the text is to explain how data fitting via least squares works. The reader will find that the emphasis of the book is on practical matters, not on theoretical problems. In addition, the book enables the reader to design own software implementations with application-specific model functions based on the comprehensive discussion of several examples. The text is accompanied with working source code in ANSI-C for fitting with weighted least squares including outlier detection. Among others the book covers following topics * fitting of linear and nonlinear functions with one- or multi-dimensional variables * weighted least-squares * outlier detection * evaluation of the fitting results * different optimisation strategies * combined fitting of different model functions * total least-squares approach with multi-dimensional conditions

Data Fitting and Uncertainty: A Practical Introduction to Weighted Least Squares and Beyond By Tilo Strutz **Bibliography**

- Sales Rank: #3578555 in Books
- Published on: 2010-11-01
- Released on: 2010-09-30
- Original language: German
- Number of items: 1
- Dimensions: 9.44" h x .60" w x 6.61" l, .97 pounds
- Binding: Paperback
- 244 pages

 [Download Data Fitting and Uncertainty: A Practical Introduc ...pdf](#)

 [Read Online Data Fitting and Uncertainty: A Practical Introd ...pdf](#)

Download and Read Free Online Data Fitting and Uncertainty: A Practical Introduction to Weighted Least Squares and Beyond By Tilo Strutz

Editorial Review

Users Review

From reader reviews:

Lauren Marine:

Book will be written, printed, or outlined for everything. You can learn everything you want by a publication. Book has a different type. We all know that that book is important thing to bring us around the world. Close to that you can your reading ability was fluently. A guide Data Fitting and Uncertainty: A Practical Introduction to Weighted Least Squares and Beyond will make you to always be smarter. You can feel far more confidence if you can know about every thing. But some of you think in which open or reading the book make you bored. It's not make you fun. Why they are often thought like that? Have you seeking best book or suitable book with you?

Marian Perkins:

Hey guys, do you would like to finds a new book to learn? May be the book with the name Data Fitting and Uncertainty: A Practical Introduction to Weighted Least Squares and Beyond suitable to you? Typically the book was written by well known writer in this era. The actual book untitled Data Fitting and Uncertainty: A Practical Introduction to Weighted Least Squares and Beyond is the main of several books this everyone read now. This particular book was inspired lots of people in the world. When you read this reserve you will enter the new shape that you ever know ahead of. The author explained their idea in the simple way, consequently all of people can easily to recognise the core of this publication. This book will give you a lot of information about this world now. To help you to see the represented of the world in this book.

Kevin House:

Beside this kind of Data Fitting and Uncertainty: A Practical Introduction to Weighted Least Squares and Beyond in your phone, it could possibly give you a way to get more close to the new knowledge or facts. The information and the knowledge you will got here is fresh from your oven so don't be worry if you feel like an older people live in narrow commune. It is good thing to have Data Fitting and Uncertainty: A Practical Introduction to Weighted Least Squares and Beyond because this book offers to you personally readable information. Do you occasionally have book but you would not get what it's all about. Oh come on, that will not happen if you have this in your hand. The Enjoyable blend here cannot be questionable, similar to treasuring beautiful island. Use you still want to miss it? Find this book in addition to read it from at this point!

Denita Lumley:

What is your hobby? Have you heard that question when you got students? We believe that that issue was given by teacher for their students. Many kinds of hobby, Every person has different hobby. Therefore you know that little person including reading or as reading become their hobby. You must know that reading is very important along with book as to be the issue. Book is important thing to include you knowledge, except your own teacher or lecturer. You find good news or update concerning something by book. Amount types of books that can you decide to try be your object. One of them is niagra Data Fitting and Uncertainty: A Practical Introduction to Weighted Least Squares and Beyond.

Download and Read Online Data Fitting and Uncertainty: A Practical Introduction to Weighted Least Squares and Beyond By Tilo Strutz #C9YO3ERF2V5

Read Data Fitting and Uncertainty: A Practical Introduction to Weighted Least Squares and Beyond By Tilo Strutz for online ebook

Data Fitting and Uncertainty: A Practical Introduction to Weighted Least Squares and Beyond By Tilo Strutz 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 Data Fitting and Uncertainty: A Practical Introduction to Weighted Least Squares and Beyond By Tilo Strutz books to read online.

Online Data Fitting and Uncertainty: A Practical Introduction to Weighted Least Squares and Beyond By Tilo Strutz ebook PDF download

Data Fitting and Uncertainty: A Practical Introduction to Weighted Least Squares and Beyond By Tilo Strutz Doc

Data Fitting and Uncertainty: A Practical Introduction to Weighted Least Squares and Beyond By Tilo Strutz Mobipocket

Data Fitting and Uncertainty: A Practical Introduction to Weighted Least Squares and Beyond By Tilo Strutz EPub