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MATLAB for Students

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The most representative examples of this are Matlab and Simulink, from The MathWorks. Matlab is a very powerful and ... is mostly standard, predictive (it is well known early in the design that a ...

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MATLAB is currently the language of technical computing most known and used in academia, industry and services. It is

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composed of a set of tools and a very large number of functions, graphics objects with associated properties and operators. The book begins by looking at the main tools, in particular the Desktop, the Command and History Window, the Editor and the Help Browser. The selected number of functions, graphics objects, related properties and operators, considered fundamental in MATLAB, is a unique and remarkable feature of this book. These basic elements are minutely treated both formally and through examples. The arrangement of every data type as an array is another prominent emphasis of the book. Numerical data used in advanced mathematics usually



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defined as vectors or matrices are only one example. Others include logical values, strings of characters, dates, images, etc. Standard programming structures, like the many patterns of user functions and of the flow controls, are highlighted. The basic elements of data visualization — the main graphics objects and their properties — are also carefully examined.

Praise for the Second Edition:  
"The authors present an intuitive and easy-to-read book. ... accompanied by many examples, proposed exercises, good references, and comprehensive appendices that initiate the reader unfamiliar with MATLAB."  
—Adolfo Alvarez Pinto,

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International Statistical Review  
"Practitioners of EDA who use  
MATLAB will want a copy of this  
book. ... The authors have done a  
great service by bringing together  
so many EDA routines, but their  
main accomplishment in this  
dynamic text is providing the  
understanding and tools to do  
EDA. —David A Huckaby, MAA  
Reviews Exploratory Data  
Analysis (EDA) is an important  
part of the data analysis process.  
The methods presented in this  
text are ones that should be in  
the toolkit of every data scientist.  
As computational sophistication  
has increased and data sets have  
grown in size and complexity,  
EDA has become an even more  
important process for visualizing  
and summarizing data before

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making assumptions to generate hypotheses and models.

Exploratory Data Analysis with MATLAB, Third Edition presents EDA methods from a computational perspective and uses numerous examples and applications to show how the methods are used in practice. The authors use MATLAB code, pseudo-code, and algorithm descriptions to illustrate the concepts. The MATLAB code for examples, data sets, and the EDA Toolbox are available for download on the book's website. New to the Third Edition Random projections and estimating local intrinsic dimensionality Deep learning autoencoders and stochastic neighbor embedding Minimum spanning tree and

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additional cluster validity indices  
Kernel density estimation Plots for  
visualizing data distributions,  
such as beanplots and violin plots  
A chapter on visualizing  
categorical data

Environmental Data Analysis with  
MatLab is for students and  
researchers working to analyze  
real data sets in the  
environmental sciences. One only  
has to consider the global  
warming debate to realize how  
critically important it is to be able  
to derive clear conclusions from  
often-noisy data drawn from a  
broad range of sources. This book  
teaches the basics of the  
underlying theory of data  
analysis, and then reinforces that  
knowledge with carefully chosen,

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realistic scenarios. MatLab, a commercial data processing environment, is used in these scenarios; significant content is devoted to teaching how it can be effectively used in an environmental data analysis setting. The book, though written in a self-contained way, is supplemented with data sets and MatLab scripts that can be used as a data analysis tutorial.

Author's website: <http://www.ideo.columbia.edu/users/menke/edawm/index.htm> Well written and outlines a clear learning path for researchers and students Uses real world environmental examples and case studies MatLab software for application in a readily-available software environment Homework problems

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help user follow up upon case studies with homework that expands them

Making sense of sports performance data can be a challenging task but is nevertheless an essential part of performance analysis investigations. Focusing on techniques used in the analysis of sport performance, this book introduces the fundamental principles of data analysis, explores the most important tools used in data analysis, and offers guidance on the presentation of results. The book covers key topics such as: The purpose of data analysis, from statistical analysis to algorithmic processing Commercial packages for

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performance and data analysis, including Focus, Sportscode, Dartfish, Prozone, Excel, SPSS and Matlab Effective use of statistical procedures in sport performance analysis Analysing data from manual notation systems, player tracking systems and computerized match analysis systems Creating visually appealing 'dashboard' interfaces for presenting data Assessing reliability. The book includes worked examples from real sport, offering clear guidance to the reader and bringing the subject to life. This book is invaluable reading for any student, researcher or analyst working in sport performance or undertaking a sport-related research project or methods course

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Group method of data handling (GMDH) is a typical inductive modeling method built on the principles of self-organization. Since its introduction, inductive modelling has been developed to support complex systems in prediction, clusterization, system identification, as well as data mining and knowledge extraction technologies in social science, science, engineering, and medicine. This is the first book to explore GMDH using MATLAB (matrix laboratory) language. Readers will learn how to implement GMDH in MATLAB as a method of dealing with big data analytics. Error-free source codes in MATLAB have been included in supplementary material



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(accessible online) to assist users in their understanding in GMDH and to make it easy for users to further develop variations of GMDH algorithms.

Contents:Basic/Standard

GMDH:Introduction (Godfrey C

Onwubolu)GMDH Multilayered

Algorithm (Godfrey C

Onwubolu)GMDH Multilayered

Algorithm in MATLAB (Mohammed

Abdalla Ayoub Mohammed)Hybrid

GMDH System:GMDH-Based

Polynomial Neural Network

Algorithm in MATLAB (Elaine

Inácio Bueno, Iraci Martinez

Pereira and Antonio Teixeira e

Silva)Designing GMDH Model

Using Modified Levenberg

Marquardt Technique in Matlab

(Maryam Pournasir

Roubaneh)Group Method of Data

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Handing Using Discrete  
Differential Evolution in Matlab  
(Donald Davendra, Godfrey  
Onwubolu and Ivan Zelinka)  
Readership: Professionals and  
students interested in data  
mining and analytics.

As with the bestselling first  
edition, Computational Statistics  
Handbook with MATLAB, Second  
Edition covers some of the most  
commonly used contemporary  
techniques in computational  
statistics. With a strong, practical  
focus on implementing the  
methods, the authors include  
algorithmic descriptions of the  
procedures as well as

Intelligent Data-Analytics for  
Condition Monitoring: Smart Grid

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Applications looks at intelligent and meaningful uses of data required for an optimized, efficient engineering processes. In addition, the book provides application perspectives of various deep learning models for the condition monitoring of electrical equipment. With chapters discussing the fundamentals of machine learning and data analytics, the book is divided into two parts, including i) The application of intelligent data analytics in Solar PV fault diagnostics, transformer health monitoring and faults diagnostics, and induction motor faults and ii) Forecasting issues using data analytics which looks at global solar radiation forecasting, wind data forecasting, and more. This

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reference is useful for all engineers and researchers who need preliminary knowledge on data analytics fundamentals and the working methodologies and architecture of smart grid systems. Features deep learning methodologies in smart grid deployment and maintenance applications Includes coding for intelligent data analytics for each application Covers advanced problems and solutions of smart grids using advance data analytic techniques

Complex mathematical and computational models are used in all areas of society and technology and yet model based science is increasingly contested or refuted, especially when

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models are applied to controversial themes in domains such as health, the environment or the economy. More stringent standards of proofs are demanded from model-based numbers, especially when these numbers represent potential financial losses, threats to human health or the state of the environment. Quantitative sensitivity analysis is generally agreed to be one such standard. Mathematical models are good at mapping assumptions into inferences. A modeller makes assumptions about laws pertaining to the system, about its status and a plethora of other, often arcane, system variables and internal model settings. To what extent can we rely on the

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model-based inference when most of these assumptions are fraught with uncertainties? Global Sensitivity Analysis offers an accessible treatment of such problems via quantitative sensitivity analysis, beginning with the first principles and guiding the reader through the full range of recommended practices with a rich set of solved exercises. The text explains the motivation for sensitivity analysis, reviews the required statistical concepts, and provides a guide to potential applications. The book: Provides a self-contained treatment of the subject, allowing readers to learn and practice global sensitivity analysis without further materials. Presents ways to frame the analysis, interpret its

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results, and avoid potential pitfalls. Features numerous exercises and solved problems to help illustrate the applications. Is authored by leading sensitivity analysis practitioners, combining a range of disciplinary backgrounds. Postgraduate students and practitioners in a wide range of subjects, including statistics, mathematics, engineering, physics, chemistry, environmental sciences, biology, toxicology, actuarial sciences, and econometrics will find much of use here. This book will prove equally valuable to engineers working on risk analysis and to financial analysts concerned with pricing and hedging.

Get started with MATLAB for deep

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learning and AI with this in-depth primer. In this book, you start with machine learning fundamentals, then move on to neural networks, deep learning, and then convolutional neural networks. In a blend of fundamentals and applications, MATLAB Deep Learning employs MATLAB as the underlying programming language and tool for the examples and case studies in this book. With this book, you'll be able to tackle some of today's real world big data, smart bots, and other complex data problems. You'll see how deep learning is a complex and more intelligent aspect of machine learning for modern smart data analysis and usage. What You'll Learn Use MATLAB for deep



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learning Discover neural networks and multi-layer neural networks Work with convolution and pooling layers Build a MNIST example with these layers Who This Book Is For Those who want to learn deep learning using MATLAB. Some MATLAB experience may be useful.

With the current advances in technology innovation, the field of medicine and healthcare is rapidly expanding and, as a result, many different areas of human health diagnostics, treatment and care are emerging. Wireless technology is getting faster and 5G mobile technology allows the Internet of Medical Things (IoMT) to greatly improve patient care and more effectively

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prevent illness from developing. This book provides an overview and review of the current and anticipated changes in medicine and healthcare due to new technologies and faster communication between users and devices. This groundbreaking book presents state-of-the-art chapters on many subjects including: A review of the implications of VR and AR healthcare applications A review of current augmenting dental care An overview of typical human-computer interaction (HCI) that can help inform the development of user interface designs and novel ways to evaluate human behavior to responses in virtual reality (VR) and other new technologies A

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review of telemedicine  
technologies Building empathy in  
young children using augmented  
reality AI technologies for mobile  
health of stroke monitoring &  
rehabilitation robotics control  
Mobile doctor brain AI App An  
artificial intelligence mobile cloud  
computing tool Development of a  
robotic teaching aid for disabled  
children Training system design  
of lower limb rehabilitation robot  
based on virtual reality

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