

# Matlab Databook

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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

matlab is a very powerful high level technical computing language used by mathematicians scientists and engineers to solve problems in a wide range of application areas it also comes with several toolboxes to solve most common problems the book introduces matlab programming in simple language with numerous examples that help clarify the concepts it is designed to enable readers develop a strong working knowledge of matlab and acquire programming skills to write efficient programs the book is suitable for undergraduate and postgraduate engineering students researchers and professionals who wish to learn this language quickly and more conveniently the readers after going through this book will be able to write their own programs to solve scientific and engineering problems of varying complexity key features use of system commands and problem solving techniques in command windows is explained in simple and clear language handling of arrays and matrices which are the main entities in matlab environment is discussed extensively in separate chapters handling of cell arrays and structures is described clearly with examples techniques of developing new matlab programs using scripts and functions are explained in a systematic way file handling techniques are also demonstrated topics of two dimensional graphics are discussed with illustrative plots gui programming is introduced in an easily understandable way

the use of matlab is ubiquitous in the scientific and engineering communities today and justifiably so simple programming rich graphic facilities built in functions and extensive toolboxes offer users the power and flexibility they need to solve the complex analytical problems inherent in modern technologies the ability to use matlab effectively has become practically a prerequisite to success for engineering professionals like its best selling predecessor electronics and circuit analysis using matlab second edition helps build that proficiency it provides an easy practical introduction to matlab and clearly demonstrates its use in solving a wide range of electronics and circuit analysis problems this edition reflects recent matlab enhancements includes new material and provides even more examples and exercises new in the second edition thorough revisions to the first three chapters that incorporate additional matlab functions and bring the material

up to date with recent changes to matlab a new chapter on electronic data analysis many more exercises and solved examples new sections added to the chapters on two port networks fourier analysis and semiconductor physics matlab m files available for download whether you are a student or professional engineer or technician electronics and circuit analysis using matlab second edition will serve you well it offers not only an outstanding introduction to matlab but also forms a guide to using matlab for your specific purposes to explore the characteristics of semiconductor devices and to design and analyze electrical and electronic circuits and systems

this book combines the teaching of the matlab programming language with the presentation and development of carefully selected electrical and computer engineering ece fundamentals this is what distinguishes it from other books concerned with matlab it is directed specifically to ece concerns students will see quite explicitly how and why matlab is well suited to solve practical ece problems this book is intended primarily for the freshman or sophomore ece major who has no programming experience no background in ee or ce and is required to learn matlab programming it can be used for a course about matlab or an introduction to electrical and computer engineering where learning matlab programming is strongly emphasized a first course in calculus usually taken concurrently is essential the distinguishing feature of this book is that about 15 of this matlab book develops ece fundamentals gradually from very basic principles because these fundamentals are interwoven throughout matlab can be applied to solve relevant practical problems the plentiful in depth example problems to which matlab is applied were carefully chosen so that results obtained with matlab also provide insights about the fundamentals with this feedback approach to learning matlab ece students also gain a head start in learning some core subjects in the ee and ce curricula there are nearly 200 examples and over 80 programs that demonstrate how solutions of practical problems can be obtained with matlab after using this book the ece student will be well prepared to apply matlab in all coursework that is commonly included in ee and ce curricula

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