



MATLAB Symbolic Algebra and Calculus Tools

Cesar Perez Lopez

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MATLAB is a high-level language and environment for numerical computation, visualization, and programming. Using MATLAB, you can analyze data, develop algorithms, and create models and applications. The language, tools, and built-in math functions enable you to explore multiple approaches and reach a solution faster than with spreadsheets or traditional programming languages, such as C/C++ or Java.

MATLAB Symbolic Algebra and Calculus Tools introduces you to the MATLAB language with practical hands-on instructions and results, allowing you to quickly achieve your goals. Starting with a look at symbolic variables and functions, you will learn how to solve equations in MATLAB, both symbolically and numerically, and how to simplify the results. Extensive coverage of polynomial solutions, inequalities and systems of equations are covered in detail. You will see how MATLAB incorporates vector, matrix and character variables, and functions thereof. MATLAB is a powerful symbolic manipulator which enables you to factorize, expand and simplify complex algebraic expressions over all common fields (including over finite fields and algebraic field extensions of the rational numbers). With MATLAB you can also work with ease in matrix algebra, making use of commands which allow you to find eigenvalues, eigenvectors, determinants, norms and various matrix decompositions, among many other features. Lastly, you will see how you can use MATLAB to explore mathematical analysis, finding limits of sequences and functions, sums of series, integrals, derivatives and solving differential equation.

What you'll learn

- How to use MATLAB to work with numeric and symbolic variables, including vector, matrix and character variables
- How to use MATLAB to handle polynomials and general algebraic expressions, factorizing, expanding and simplifying over a wide range of fields
- How to use MATLAB to work on matrix and vector functions, including all the standard matrix operations and decompositions
- How to solve equations and systems of equations using MATLAB
- How MATLAB can be used to explore mathematical analysis, by finding limits of sequences and functions, sums of series, integrals, derivatives, and solving differential equations

Who this book is for

This book is for anyone who wants to work in a practical, hands-on manner on symbolic algebra or calculus problems with MATLAB. You'll already have a core understanding of undergraduate level calculus, algebra

and linear algebra, and have access to an installed version of MATLAB, but no previous experience of MATLAB is assumed.

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Lauren Graves:

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Robert McKay:

Spent a free time to be fun activity to complete! A lot of people spent their spare time with their family, or their own friends. Usually they accomplishing activity like watching television, going to beach, or picnic within the park. They actually doing ditto every week. Do you feel it? Do you wish to something different to fill your current free time/ holiday? Can be reading a book may be option to fill your no cost time/ holiday. The first thing that you'll ask may be what kinds of guide that you should read. If you want to attempt look for book, may be the guide untitled MATLAB Symbolic Algebra and Calculus Tools can be great book to read. May be it is usually best activity to you.

Kenton Marshall:

Playing with family in the park, coming to see the sea world or hanging out with buddies is thing that usually you will have done when you have spare time, in that case why you don't try factor that really opposite from that. Just one activity that make you not feeling tired but still relaxing, trilling like on roller coaster you already been ride on and with addition of knowledge. Even you love MATLAB Symbolic Algebra and Calculus Tools, you can enjoy both. It is excellent combination right, you still wish to miss it? What kind of hang-out type is it? Oh can happen its mind hangout folks. What? Still don't have it, oh come on its called reading friends.

Suzanne Palmer:

The book untitled MATLAB Symbolic Algebra and Calculus Tools contain a lot of information on it. The writer explains your ex idea with easy approach. The language is very straightforward all the people, so do not necessarily worry, you can easy to read it. The book was written by famous author. The author brings you in the new era of literary works. You can read this book because you can continue reading your smart phone, or program, so you can read the book with anywhere and anytime. If you want to buy the e-book, you can open their official web-site and order it. Have a nice learn.

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