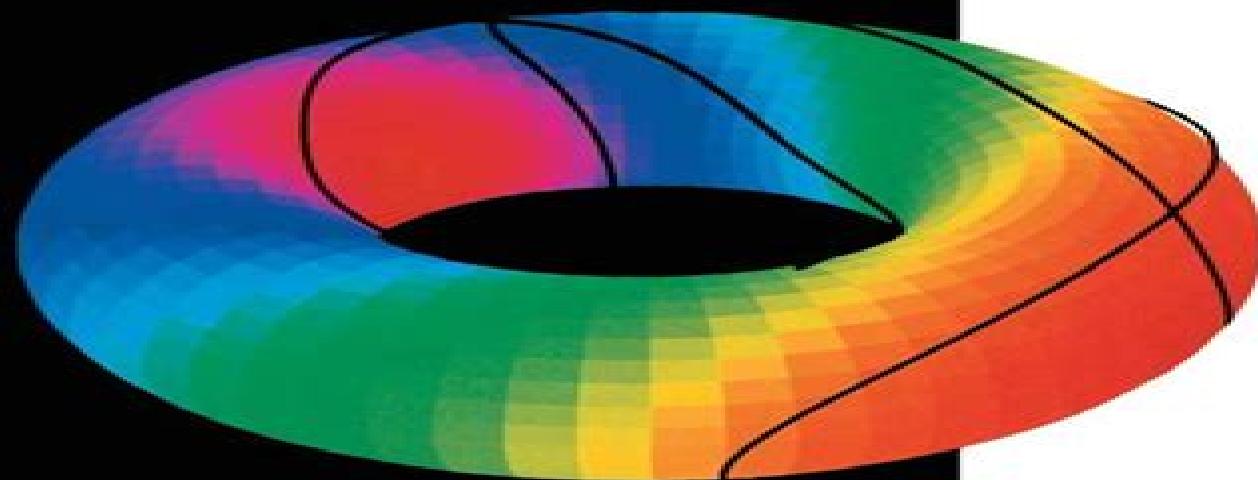


■ Stephan Kaufmann

Mathematica as a tool

An introduction with
practical examples



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Mathematica As A Tool An Introduction With Practical Examples

Donald Bindner

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Mathematica as a Tool Stephan Kaufmann,2012-12-06 More than ten years ago I wanted to carry out coordinate transformations for Hamiltonian systems in order to discuss the stability of certain equilibrium positions. Basically the calculations only involved rational expressions but they turned out to be extremely complicated because the third and fourth order terms had to be included. After several months of filling whole blocks of paper with formulas I was close to resignation. But by a lucky incident I met a colleague who showed me the computer algebra package Reduce. It still required a lot of patience and tricks but Reduce finally did produce the desired results. After this experience I wondered why only a few engineers and scientists were aware of the strengths of such computer algebra programs. The mathematical treatment of scientific problems often leads to calculations which can only be solved by hand with a considerable investment of time while a suitable computer algebra program produces the solution within a couple of seconds or minutes. Even if a closed symbolic solution is not possible such programs can often simplify a problem before the cruder tool of numerical simulations is applied.

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Table of Contents Mathematica As A Tool An Introduction With Practical Examples

1. Understanding the eBook Mathematica As A Tool An Introduction With Practical Examples
 - The Rise of Digital Reading Mathematica As A Tool An Introduction With Practical Examples
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematica As A Tool An Introduction With Practical Examples
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an eBook Mathematica As A Tool An Introduction With Practical Examples
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematica As A Tool An Introduction With Practical Examples
 - Personalized Recommendations

- Mathematica As A Tool An Introduction With Practical Examples User Reviews and Ratings
- Mathematica As A Tool An Introduction With Practical Examples and Bestseller Lists

5. Accessing Mathematica As A Tool An Introduction With Practical Examples Free and Paid eBooks

- Mathematica As A Tool An Introduction With Practical Examples Public Domain eBooks
- Mathematica As A Tool An Introduction With Practical Examples eBook Subscription Services
- Mathematica As A Tool An Introduction With Practical Examples Budget-Friendly Options

6. Navigating Mathematica As A Tool An Introduction With Practical Examples eBook Formats

- ePUB, PDF, MOBI, and More
- Mathematica As A Tool An Introduction With Practical Examples Compatibility with Devices
- Mathematica As A Tool An Introduction With Practical Examples Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Mathematica As A Tool An Introduction With Practical Examples
- Highlighting and Note-Taking Mathematica As A Tool An Introduction With Practical Examples
- Interactive Elements Mathematica As A Tool An Introduction With Practical Examples

8. Staying Engaged with Mathematica As A Tool An Introduction With Practical Examples

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Mathematica As A Tool An Introduction With Practical Examples

9. Balancing eBooks and Physical Books Mathematica As A Tool An Introduction With Practical Examples

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Mathematica As A Tool An Introduction With Practical Examples

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Mathematica As A Tool An Introduction With Practical Examples

- Setting Reading Goals Mathematica As A Tool An Introduction With Practical Examples
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Mathematica As A Tool An Introduction With Practical Examples

- Fact-Checking eBook Content of Mathematica As A Tool An Introduction With Practical Examples

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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