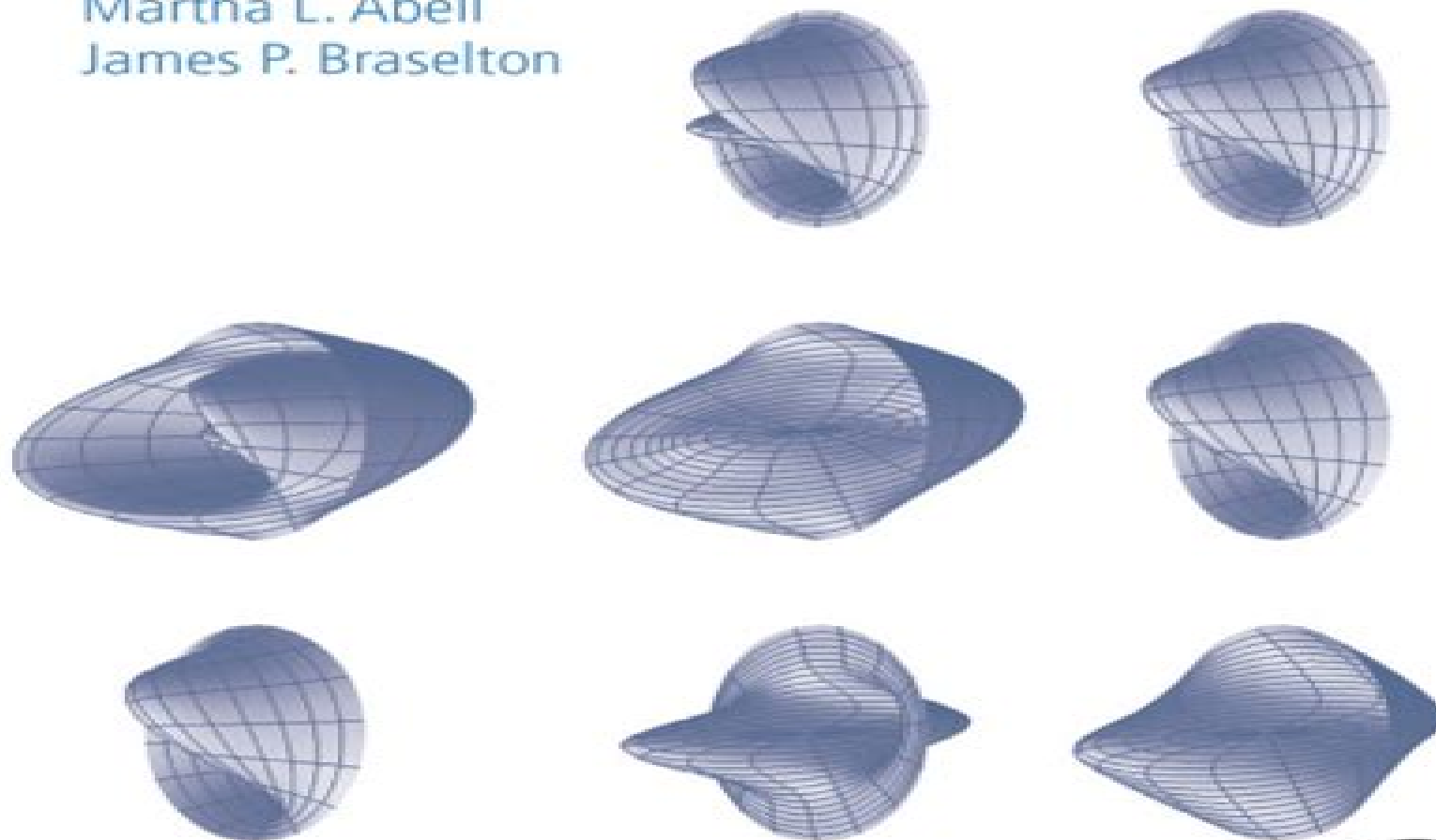


MATHEMATICA

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Martha L. Abell
James P. Braselton



Mathematica By Example

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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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operations on lists and tables This chapter is a prerequisite for Chapter 5 which discusses nested lists and tables in detail The purpose of Chapter 6 is to illustrate various computations Mathematica can perform when solving differential equations Chapter 7 discusses some of the more frequently used commands contained in various graphics packages available with Mathematica Engineers computer scientists physical scientists mathematicians business professionals and students will find the book useful Mathematica® in Action Stan Wagon,2010-06-29 Plenty of examples and case studies utilize Mathematica 7 s newest tools such as dynamic manipulations and adaptive three dimensional plotting Emphasizes the breadth of Mathematica and the impressive results of combining techniques from different areas Whenever possible the book shows how Mathematica can be used to discover new things Striking examples include the design of a road on which a square wheel bike can ride the design of a drill that can drill square holes and new and surprising formulas for p Visualization is emphasized throughout with finely crafted graphics in each chapter

Programming in Mathematica Roman Maeder,1997 This work describes Mathematica programming methods and then explains how to apply them to the construction of the actual programs In addition it also discusses the software engineering issues of writing and using larger programs in Mathematica *A Course in Ordinary Differential Equations* Stephen A. Wirkus,Randall J. Swift,2014-12-15 A Course in Ordinary Differential Equations Second Edition teaches students how to use analytical and numerical solution methods in typical engineering physics and mathematics applications Lauded for its extensive computer code and student friendly approach the first edition of this popular textbook was the first on ordinary differential equat

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Projects at the end of each chapter that go into detail about certain topics and introduce new topics that the students are now ready to see Answers to most of the odd problems in the back of the book

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Action of the Governors Under 39 U.S.C. Section 3625 and Supporting Record in the Matter of Postal Rate and Fee Increases, 1971: Pocket No. R71-1 Before the Postal Rate Commission United States Postal Service,1972 Problem Solving in C++ Including Breadth and Laboratories Angela B. Shiflet,1998 In the author s words this book introduces students to the analysis design implementation testing and debugging of programs using C and to the breadth and richness of the computer science discipline PROBLEM SOLVING IN C features an early but gradual and natural introduction to object oriented programming starting in Chapter 3 and chapter ending built in laboratories that directly support the book s presentation of concepts It offers twenty two discrete breadth sections that present a broad range of topics in computer science The author presents programming in a clear visual manner with ample use of examples and figures Other learning features include exercises at the end of each section an average of 17 programming projects per chapter historical anecdotes chapter introductions and goals programming and debugging hints chapter key terms and summaries and review questions

Chemical Engineering Education ,1998

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