

SECOND EDITION

MATHEMATICA *for* THEORETICAL PHYSICS

*Classical Mechanics and
Nonlinear Dynamics*

GERD BAUMANN

 Springer



Mathematica For Theoretical Physics Classical Mechanics And Nonlinear Dynamics

Gerd Baumann



Mathematica For Theoretical Physics Classical Mechanics And Nonlinear Dynamics:

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examples given in the text can also be interactively used and changed for the reader's purposes. The Author Gerd Baumann is affiliated with the Mathematical Physics Division of the University of Ulm, Germany, where he is professor. He is the author of *Symmetry Analysis of Differential Equations with Mathematica*. Dr. Baumann has given numerous invited talks at universities and industry alike. He regularly hosts seminars and lectures on symbolic computing at the University of Ulm and at TECHNISCHE UNIVERSITÄT MÜNCHEN (TUM) Munich. *Mathematica for Theoretical Physics* Gerd Baumann, 2005

Mathematica for Theoretical Physics Gerd Baumann, 2008-11-01. A class-tested textbook that shows readers how to solve physical problems and deal with their underlying theoretical concepts while using Mathematica to derive numeric and symbolic solutions. Delivers dozens of fully interactive examples for learning and implementation; constants and formulae can readily be altered and adapted for the user's purposes. New edition offers enlarged two-volume format suitable to courses in mechanics and electrodynamics while offering dozens of new examples and a more rewarding interactive learning environment. Notebooks for problem solving and learning.

Mathematica for Theoretical Physics Gerd Baumann, 2006-01-16. As physicists, mathematicians, or engineers, we are all involved with mathematical calculations in our everyday work. Most of the laborious, complicated, and time-consuming calculations have to be done over and over again if we want to check the validity of our assumptions and derive new phenomena from changing models. Even in the age of computers, we often use paper and pencil to do our calculations. However, computer programs like Mathematica have revolutionized our working methods. Mathematica not only supports popular numerical calculations but also enables us to do exact analytical calculations by computer. Once we know the analytical representations of physical phenomena, we are able to use Mathematica to create graphical representations of these relations. Days of calculations by hand have shrunk to minutes by using Mathematica. Results can be verified within a few seconds, a task that took hours if not days in the past. The present text uses Mathematica as a tool to discuss and to solve examples from physics. The intention of this book is to demonstrate the usefulness of Mathematica in everyday applications. We will not give a complete description of its syntax but demonstrate by examples the use of its language. In particular, we show how this modern tool is used to solve classical problems.

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This second edition of *Mathematica in Theoretical Physics* seeks to prevent the objectives and emphasis of the previous edition.

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readers how to solve physical problems and deal with their underlying theoretical concepts while using Mathematica to derive numeric and symbolic solutions Each example and calculation can be evaluated by the reader and the reader can change the example calculations and adopt the given code to related or similar problems The second edition has been completely revised and expanded into two volumes The first volume covers classical mechanics and nonlinear dynamics Both topics are the basis of a regular mechanics course The second volume covers electrodynamics quantum mechanics relativity and fractals and fractional calculus New examples have been added and the representation has been reworked to provide a more interactive problem solving presentation This book can be used as a textbook or as a reference work by students and researchers alike A brief glossary of terms and functions is contained in the appendices The examples given in the text can also be interactively used and changed for the reader's purposes The Author Gerd Baumann is affiliated with the Mathematical Physics Division of the University of Ulm Germany where he is professor He is the author of *Symmetry Analysis of Differential Equations with Mathematica* Dr Baumann has given numerous invited talks at universities and industry alike He regularly hosts seminars and lectures on symbolic computing at the University of Ulm and at TECHNISCHE UNIVERSITÄT MÜNCHEN TUM Munich

Advanced Dynamics Dan B. Marghitu, Mihai Dupac, 2012-05-24 *Advanced Dynamics Analytical and Numerical Calculations with MATLAB* provides a thorough rigorous presentation of kinematics and dynamics while using MATLAB as an integrated tool to solve problems Topics presented are explained thoroughly and directly allowing fundamental principles to emerge through applications from areas such as multibody systems robotics spacecraft and design of complex mechanical devices This book differs from others in that it uses symbolic MATLAB for both theory and applications Special attention is given to solutions that are solved analytically and numerically using MATLAB The illustrations and figures generated with MATLAB reinforce visual learning while an abundance of examples offer additional support

Essentials of Mathematica Nino Boccara, 2007-04-13 This book teaches how to use Mathematica to solve a wide variety of problems in mathematics and physics It is based on the lecture notes of a course taught at the University of Illinois at Chicago to advanced undergrad and graduate students The book is illustrated with many detailed examples that require the student to construct meticulous step by step easy to read Mathematica programs The first part in which the reader learns how to use a variety of Mathematica commands contains examples not long explanations the second part contains attractive applications

Statics with MATLAB® Dan B. Marghitu, Mihai Dupac, Nels H. Madsen, 2013-06-13 *Engineering mechanics* involves the development of mathematical models of the physical world Statics addresses the forces acting on and in mechanical objects and systems Statics with MATLAB develops an understanding of the mechanical behavior of complex engineering structures and components using MATLAB to execute numerical calculations and to facilitate analytical calculations MATLAB is presented and introduced as a highly convenient tool to solve problems for theory and applications in statics Included are example problems to demonstrate the MATLAB syntax and to also introduce specific functions dealing

with statics These explanations are reinforced through figures generated with MATLAB and the extra material available online which includes the special functions described This detailed introduction and application of MATLAB to the field of statics makes Statics with MATLAB a useful tool for instruction as well as self study highlighting the use of symbolic MATLAB for both theory and applications to find analytical and numerical solutions

Dynamical Systems with Applications using Mathematica® Stephen Lynch, 2007-10-01 This book provides an introduction to the theory of dynamical systems with the aid of the Mathematica computer algebra package The book has a very hands on approach and takes the reader from basic theory to recently published research material Emphasized throughout are numerous applications to biology chemical kinetics economics electronics epidemiology nonlinear optics mechanics population dynamics and neural networks Theorems and proofs are kept to a minimum The first section deals with continuous systems using ordinary differential equations while the second part is devoted to the study of discrete dynamical systems

Wavelet Numerical Method and Its Applications in Nonlinear Problems You-He Zhou, 2021-03-09 This book summarizes the basic theory of wavelets and some related algorithms in an easy to understand language from the perspective of an engineer rather than a mathematician In this book the wavelet solution schemes are systematically established and introduced for solving general linear and nonlinear initial boundary value problems in engineering including the technique of boundary extension in approximating interval bounded functions the calculation method for various connection coefficients the single point Gaussian integration method in calculating the coefficients of wavelet expansions and unique treatments on nonlinear terms in differential equations At the same time this book is supplemented by a large number of numerical examples to specifically explain procedures and characteristics of the method as well as detailed treatments for specific problems Different from most of the current monographs focusing on the basic theory of wavelets it focuses on the use of wavelet based numerical methods developed by the author over the years Even for the necessary basic theory of wavelet in engineering applications this book is based on the author's own understanding in plain language instead of a relatively difficult professional mathematical description This book is very suitable for students researchers and technical personnel who only want to need the minimal knowledge of wavelet method to solve specific problems in engineering

Introduction to Oscillatory Motion With Mathematica Steven Tan, 2018-05-10 This book is a survey of basic oscillatory concepts with the aid of Mathematica computer algebra system to represent them and to calculate with them It is written for students teachers and researchers needing to understand the basic of oscillatory motion or intending to use Mathematica to extend their knowledge All illustrations in the book can be replicated and used to learn and discover oscillatory motion in a new and exciting way It is meant to complement the analytical skills and to use the computer to visualize the results and to develop a deeper intuitive understanding of oscillatory motion by observing the effects of varying the parameters of the problem

Differential Dynamical Systems, Revised Edition James D. Meiss, 2017-01-24 Differential equations are the basis for models of any physical systems that exhibit

smooth change This book combines much of the material found in a traditional course on ordinary differential equations with an introduction to the more modern theory of dynamical systems Applications of this theory to physics biology chemistry and engineering are shown through examples in such areas as population modeling fluid dynamics electronics and mechanics Differential Dynamical Systems begins with coverage of linear systems including matrix algebra the focus then shifts to foundational material on nonlinear differential equations making heavy use of the contraction mapping theorem Subsequent chapters deal specifically with dynamical systems concepts flow stability invariant manifolds the phase plane bifurcation chaos and Hamiltonian dynamics This new edition contains several important updates and revisions throughout the book Throughout the book the author includes exercises to help students develop an analytical and geometrical understanding of dynamics Many of the exercises and examples are based on applications and some involve computation an appendix offers simple codes written in Maple Mathematica and MATLAB software to give students practice with computation applied to dynamical systems problems

Exploring Scanning Probe Microscopy with MATHEMATICA Dror Sarid, 2007-02-27

This new and completely updated edition features not only an accompanying CD ROM but also a new applications section reflecting the many breakthroughs in the field over the last few years It provides a complete set of computational models that describe the physical phenomena associated with scanning tunneling microscopy atomic force microscopy and related technologies The result is both a solid professional reference and an advanced level text beginning with the basics and moving on to the latest techniques experiments and theory In the section devoted to atomic force microscopy the author describes the mechanical properties of cantilevers atomic force microscope tip sample interactions and cantilever vibration characteristics This is followed by an in depth treatment of theoretical and practical aspects of tunneling phenomena including metal insulator metal tunneling and Fowler Nordheim field emission The final section features applications dealing with among others Kelvin and Raman probe microscopy The self contained presentation spares researchers valuable time spent hunting through the technical literature for the theoretical results required to understand the models presented The Mathematica code for all the examples is included in the CD ROM affording the freedom to change the values and parameters of specific problems as desired or even modify the programs themselves to suit various modeling needs

Dynamical Systems with Applications using MapleTM Stephen Lynch, 2009-12-23 Since the first edition of this book was published in 2001 the algebraic computation package Maple has evolved from Maple V into Maple 13 Accordingly the second edition has been thoroughly updated and new material has been added In this edition there are many more applications examples and exercises all with solutions and new chapters on neural networks and simulation have been added There are also new sections on perturbation methods normal forms Gröbner bases and chaos synchronization This book provides an introduction to the theory of dynamical systems with the aid of the Maple algebraic manipulation package It is written for both senior undergraduates and graduate students The first part of the book deals with continuous systems using ordinary

differential equations Chapters 1-10 the second part is devoted to the study of discrete dynamical systems Chapters 11-15 and Chapters 16-18 deal with both continuous and discrete systems Chapter 19 lists examination type questions used by the author over many years one set to be used in a computer laboratory with access to Maple and the other set to be used without access to Maple Chapter 20 lists answers to all of the exercises given in the book It should be pointed out that dynamical systems theory is not limited to these topics but also encompasses partial differential equations integral and integro differential equations stochastic systems and time delay systems for instance References 1-5 given at the end of the Preface provide more information for the interested reader Mechanisms and Robots Analysis with MATLAB® Dan B.

Marghitu, 2009-05-06 Modern technical advancements in areas such as robotics multi body systems spacecraft control and design of complex mechanical devices and mechanisms in industry require the knowledge to solve advanced concepts in dynamics *Mechanisms and Robots Analysis with MATLAB* provides a thorough rigorous presentation of kinematics and dynamics The book uses MATLAB as a tool to solve problems from the field of mechanisms and robots The book discusses the tools for formulating the mathematical equations and also the methods of solving them using a modern computing tool like MATLAB An emphasis is placed on basic concepts derivations and interpretations of the general principles The book is of great benefit to senior undergraduate and graduate students interested in the classical principles of mechanisms and robotics systems Each chapter introduction is followed by a careful step by step presentation and sample problems are provided at the end of every chapter *Mathematical Reviews*, 2006 *Dissipative Solitons in Reaction Diffusion Systems* Andreas Liehr, 2013-03-27 Why writing a book about a specialized task of the large topic of complex systems And who will read it The answer is simple The fascination for a didactically valuable point of view the elegance of a closed concept and the lack of a comprehensive disquisition The fascinating part is that field equations can have localized solutions exhibiting the typical characteristics of particles Regarding the field equations this book focuses on the field phenomenon of localized solutions can be described in the context of a particle formalism which leads to a set of ordinary differential equations covering the time evolution of the position and the velocity of each particle Moreover starting from these particle dynamics and making the transition to many body systems one considers typical phenomena of many body systems as shock waves and phase transitions which themselves can be described as field phenomena Such transitions between different level of modelling are well known from conservative systems where localized solutions of quantum field theory lead to the mechanisms of elementary particle interaction and from this to field equations describing the properties of matter However in dissipative systems such transitions have not been considered yet which is adjusted by the presented book The elegance of a closed concept starts with the observation of self organized current filaments in a semiconductor gas discharge system These filaments move on random paths and exhibit certain particle features like scattering or the formation of bound states Neither the reasons for the propagation of the filaments nor the laws of the interaction between the filaments can be

registered by direct observations Therefore a model is established which is phenomenological in the first instance due to the complexity of the experimental system This model allows to understand the existence of localized structures their mechanisms of movement and their interaction at least on a qualitative level But this model is also the starting point for developing a data analysis method that enables the detection of movement and interaction mechanisms of the investigated localized solutions The topic is rounded off by applying the data analysis to real experimental data and comparing the experimental observations to the predictions of the model A comprehensive publication covering the interesting topic of localized solutions in reaction diffusion systems in its width and its relation to the well known phenomena of spirals and patterns does not yet exist and this is the third reason for writing this book Although the book focuses on a specific experimental system the model equations are as simple as possible so that the discussed methods should be adaptable to a large class of systems showing particle like structures Therefore this book should attract not only the experienced scientist who is interested in self organization phenomena but also the student who would like to understand the investigation of a complex system on the basis of a continuous description

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