SECOND EDITION

# MATHEMATICA for THEORETICAL PHYSICS

Electrodynamics, Quantum Mechanics, General Relativity, and Fractals

GERD BAUMANN

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Springer



# <u>Mathematica For Theoretical Physics Electrodynamics</u> <u>Quantum Mechanics General Relativity And Fractals</u>

**Gerd Baumann** 

### Mathematica For Theoretical Physics Electrodynamics Quantum Mechanics General Relativity And Fractals:

Mathematica for Theoretical Physics Gerd Baumann, 2008-11-01 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 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 andto 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 viii Preface This second edition of Mathematica in Theoretical Physics seeks to prevent the objectives and emphasis of the previous edition **Mathematica for Theoretical Physics** Gerd Baumann, 2005-08-16 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 Fractal Geometry Kenneth Falconer, 2013-12-31 The seminal text on fractal geometry for students and researchers extensively revised and updated with new material notes and references that reflect recent directions Interest in fractal geometry continues to grow rapidly both as a subject that is fascinating in its own right and as a concept that is central to many areas of mathematics science and scientific research Since its initial publication in 1990 Fractal Geometry Mathematical Foundations and Applications has become a seminal text on the mathematics of fractals The book introduces and develops the general theory and applications of fractals in a way that is accessible to students and researchers from a wide range of disciplines Fractal Geometry

Mathematical Foundations and Applications is an excellent course book for undergraduate and graduate students studying fractal geometry with suggestions for material appropriate for a first course indicated The book also provides an invaluable foundation and reference for researchers who encounter fractals not only in mathematics but also in other areas across physics engineering and the applied sciences Provides a comprehensive and accessible introduction to the mathematical theory and applications of fractals Carefully explains each topic using illustrative examples and diagrams Includes the necessary mathematical background material along with notes and references to enable the reader to pursue individual topics Features a wide range of exercises enabling readers to consolidate their understanding Supported by a website with solutions to exercises and additional material www wileyeurope com fractal Leads onto the more advanced sequel Techniques in Fractal Geometry also by Kenneth Falconer and available from Wiley **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 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

Mathematica(R) in Theoretical Physics Gerd Baumann,1996 The primary purpose of this book is to show readers how to solve physical problems and deal with their underlying theoretical concepts while using Mathematica to derive numerical and analytic solutions Used as an everyday tool Mathematica permits scientists and engineers to perform in depth analysis of scientific computations and results This book assumes only a basic understanding of theoretical concepts in physics It can be used as a textbook or as a reference work by students and researchers alike A brief glossary of terms and functions as well as information explaining how to use the diskette are contained in the appendices 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

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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 little 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 inf mation for the interested reader

**American Journal of Physics** ,2005

The Mathematica Journal ,1995

Mathematical Reviews, 2006

Mathematica® for Theoretical Physics Gerd Baumann, 2005 American Book Publishing Record ,2006 Mathematica for Theoretical Physics Classical Mechanics and Nonlinear Dynamics This second edition of Baumann s Mathematica in Theoretical Physics shows 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 UNIVERSIT T M NCHEN TUM Munich Mathematica for Theoretical Physics Gerd Baumann, 2008-11-01 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 kompakt Hans Benker,2016-10-15 Dieses Buch bietet eine kurze und verst ndliche Einf hrung in das Softwarepaket MATHEMATICA und zeigt dessen Anwendung auf Problemstellungen aus der Ingenieurmathematik Zun chst werden der Aufbau die Arbeitsweise und die M glichkeiten von MATHEMATICA n her beschrieben Anschlie end wird dieses Grundwissen auf die Grundlagen der Ingenieurmathematik z B Matrizen Differential und Integralrechnung angewendet Der letzte Teil des Buches widmet sich den fortgeschrittenen Themen der Ingenieurmathematik Dabei werden

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