

Gerd Baumann

# Mathematica<sup>®</sup> in Theoretical Physics

Selected Examples  
from Classical Mechanics  
to Fractals

# Mathematica In Theoretical Physics

**Gerd Baumann**

## **Mathematica In Theoretical Physics:**

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

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## **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

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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, 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® for Theoretical Physics** Gerd Baumann, 2005 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 UNIVERSITÄT MÜNCHEN Munich **Mathematica for Theoretical Physics** Gerd Baumann, 2005

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worldwide success and critical acclaim *Mathematica (R) in Theoretical Physics* Gerd Baumann, 1994 **Mathematica for Theoretical Physics** Gerd Baumann, *Physics by Computer* Wolfgang Kinzel, Georg Reents, 1998 This course intended for upper division undergraduate or graduate students was designed by W Kinzel and G Reents as a textbook in computational physics but may also serve as a supplement to courses in theoretical physics. It is an introduction to the solution of physical models by computer. The programs developed in this book are based on the modern computer languages Mathematica and C and are written for PCs as well as for workstations. 28 examples from different fields of physics are worked out including chaos fractals the Hofstadter butterfly phase transitions Monte Carlo simulations percolation polymers combinatorial optimization neural networks and game theory. Detailed explanation of the algorithms and computer programs together with source files and graphics routines help the student gain thorough experience right from the start. **BOOK JACKET** Title Summary field provided by Blackwell North America Inc All Rights Reserved **Classical Mechanics with Mathematica®** Antonio Romano, 2012-09-27 This textbook takes a broad yet thorough approach to mechanics aimed at bridging the gap between classical analytic and modern differential geometric approaches to the subject. Developed by the author from 35 years of teaching experience the presentation is designed to give students an overview of the many different models used through the history of the field from Newton to Lagrange while also painting a clear picture of the most modern developments. Throughout it makes heavy use of the powerful tools offered by Mathematica. The volume is organized into two parts. The first focuses on developing the mathematical framework of linear algebra and differential geometry necessary for the remainder of the book. Topics covered include tensor algebra Euclidean and symplectic vector spaces differential manifolds and absolute differential calculus. The second part of the book applies these topics to kinematics rigid body dynamics Lagrangian and Hamiltonian dynamics Hamilton Jacobi theory completely integrable systems statistical mechanics of equilibrium and impulsive dynamics among others. Unique in its scope of coverage and method of approach Classical Mechanics will be a very useful resource for graduate students and advanced undergraduates in applied mathematics and physics who hope to gain a deeper understanding of mechanics. *Mathematical Methods Using Mathematica®* Sadri Hassani, 2006-04-10 Intended as a companion for textbooks in mathematical methods for science and engineering this book presents a large number of numerical topics and exercises together with discussions of methods for solving such problems using Mathematica R. Although it is primarily designed for use with the author's *Mathematical Methods For Students of Physics and Related Fields* the discussions in the book sufficiently self contained that the book can be used as a supplement to any of the standard textbooks in mathematical methods for undergraduate students of physical sciences or engineering. *Graduate Mathematical Physics* James J. Kelly, 2008-09-26 This up to date textbook on mathematical methods of physics is designed for a one semester graduate or two semester advanced undergraduate course. The formal methods are supplemented by applications that use MATHEMATICA to perform both symbolic and numerical calculations. The book is

written by a physicist lecturer who knows the difficulties involved in applying mathematics to real problems As many as 40 exercises are included at the end of each chapter A student CD includes a basic introduction to MATHEMATICA notebook files for each chapter and solutions to selected exercises Free solutions manual available for lecturers at [www.wiley-vch.de/supplements](http://www.wiley-vch.de/supplements) *Introduction to Mathematica® for Physicists* Andrey Grozin, 2013-08-26 The basics of computer algebra and the language of Mathematica are described in this textbook leading towards an understanding of Mathematica that allows the reader to solve problems in physics mathematics and chemistry Mathematica is the most widely used system for doing mathematical calculations by computer including symbolic and numeric calculations and graphics It is used in physics and other branches of science in mathematics education and many other areas *Group Theory in Solid State Physics and Photonics* Wolfram Hergert, R. Matthias Geilhufe, 2018-08-20 While group theory and its application to solid state physics is well established this textbook raises two completely new aspects First it provides a better understanding by focusing on problem solving and making extensive use of Mathematica tools to visualize the concepts Second it offers a new tool for the photonics community by transferring the concepts of group theory and its application to photonic crystals Clearly divided into three parts the first provides the basics of group theory Even at this stage the authors go beyond the widely used standard examples to show the broad field of applications Part II is devoted to applications in condensed matter physics i e the electronic structure of materials Combining the application of the computer algebra system Mathematica with pen and paper derivations leads to a better and faster understanding The exhaustive discussion shows that the basics of group theory can also be applied to a totally different field as seen in Part III Here photonic applications are discussed in parallel to the electronic case with the focus on photonic crystals in two and three dimensions as well as being partially expanded to other problems in the field of photonics The authors have developed Mathematica package GTPack which is available for download from the book's homepage Analytic considerations numerical calculations and visualization are carried out using the same software While the use of the Mathematica tools are demonstrated on elementary examples they can equally be applied to more complicated tasks resulting from the reader's own research

## Reviewing **Mathematica In Theoretical Physics**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing.

Within the pages of "**Mathematica In Theoretical Physics**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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