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Quantum Mechanics Using Computer Algebra

Willi-hans Steeb, Yorick Hardy



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mathematical physics studies While the aim of this text is to illustrate applications a brief synopsis of the fundamentals for each topic is presented the topics being organized to correlate with those found in traditional mathematical physics texts The recipes are presented in the form of stories and anecdotes a pedagogical approach that makes a mathematically challenging subject easier and more fun to learn Key features Uses the MAPLE computer algebra system to allow the reader to easily and quickly change the mathematical models and the parameters and then generate new answers No prior knowledge of MAPLE is assumed the relevant MAPLE commands are introduced on a need to know basis All MAPLE commands are indexed for easy reference A classroom tested story anecdote format is used accompanied with amusing or thought provoking quotations This is a self contained and standalone text similar in style and format to Computer Algebra Recipes A Gourmet's Guide to Mathematical Models of Science ISBN 0 387 95148 2 Springer New York 2001 and Computer Algebra Recipes for Classical Mechanics ISBN 0 8176 4291 9 Birkh user 2003 Computer Algebra Recipes for Mathematical Physics may be used in the classroom for self study as a reference or as a text for an online course

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Computer Algebra With Symbolic++ Yorick Hardy, Willi-hans Steeb, Kiat Shi Tan, 2008-09-04 This book gives a comprehensive introduction to computer algebra together with advanced topics in this field It provides a detailed coverage of the mathematics of computer algebra as well as a step by step guide to implement a computer algebra system in the object oriented language C The used tools from C are introduced in detail Numerous examples from mathematics physics and engineering are presented to illustrate the system's capabilities Computer algebra implementations in LISP and Haskell are also included In addition gene expression programming and multiexpression programming with applications to computer algebra are introduced

SymbolicC++: An Introduction to Computer Algebra using Object-Oriented Programming Kiat Shi Tan, Willi-Hans Steeb, Yorick Hardy, 2012-12-06 Symbolic C An Introduction to Computer Algebra Using Object Oriented Programming provides a concise introduction to C and object oriented programming using a step by step construction of a new object oriented designed computer algebra system Symbolic C It shows how object oriented programming can be used to implement a symbolic algebra system and how this can then be applied to different areas in mathematics and physics This second revised edition Explains the new powerful classes that have been added to Symbolic C Includes the Standard Template

Library Extends the Java section Contains useful classes in scientific computation Contains extended coverage of Maple
Mathematica Reduce and MuPAD Computer Algebra in Scientific Computing Andreas Weber, 2019-11-04 Although
scientific computing is very often associated with numeric computations the use of computer algebra methods in scientific
computing has obtained considerable attention in the last two decades Computer algebra methods are especially suitable for
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