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Computer Simulation and Computer Algebra

Lectures for Beginners

Third/Enlarged Edition



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Computer Simulation And Computer Algebra Lectures For Beginners

**Dietrich Stauffer, Friedrich W
Hehl, Volker Winkelmann**



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Computerized Symbolic Manipulation in Mechanics Edwin Kreuzer, 2014-05-04 The aim of this book is to present important software tools basic concepts methods and highly sophisticated applications of computerized symbolic manipulation to mechanics problems An overview about general purpose symbolic software is followed by general guidelines how to develop and implement high quality computer algebra code The theoretical background including modeling techniques for mechanical systems is provided which allows for the computer aided generation of the symbolic equation of motion for multibody systems It is shown how the governing equations for different types of problems in structural mechanics can be automatically derived and how to implement finite element techniques via computer algebra software Perturbation methods as a very powerful approach for nonlinear problems are discussed in detail and are demonstrated for a number of applications The applications covered in this book represent some of the most advanced topics in the rapidly growing field of research on symbolic

computation *Foundations of Classical Electrodynamics* Friedrich W Hehl, Yuri N. Obukhov, 2012-12-06 In this book we display the fundamental structure underlying classical electro dynamics i e the phenomenological theory of electric and magnetic effects The book can be used as a textbook for an advanced course in theoretical electrodynamics for physics and mathematics students and perhaps for some highly motivated electrical engineering students We expect from our readers that they know elementary electrodynamics in the conventional 1 3 dimensional form including Maxwell s equations More over they should be familiar with linear algebra and elementary analysis in cluding vector analysis Some knowledge of differential geometry would help Our approach rests on the metric free integral formulation of the conservation laws of electrodynamics in the tradition of F Kottler 1922 E Cartan 1923 and D van Dantzig 1934 and we stress in particular the axiomatic point of view In this manner we are led to an understanding of why the Maxwell equa tions have their specific form We hope that our book can be seen in the classical tradition of the book by E J Post 1962 on the Formal Structure of Electro magnetism and of the chapter Charge and Magnetic Flux of the encyclopedia article on classical field theories by C Truesdell and R A Toupin 1960 in cluding R A Toupin s Bressanone lectures 1965 for the exact references see the end of the introduction on page 11 Information Sources in Physics Dennis F. Shaw, 1994 This third edition includes two new chapters on quantum optics and physics of materials and eight of the other chapters have been completely rewritten by new authors All chapters have been revised and updated Patent coverage now includes European and international patents Theoretical materials a A Course in Mathematical Modeling Douglas D. Mooney, Randall J. Swift, 2021-11-15 The emphasis of this book lies in the teaching of mathematical modeling rather than simply presenting models To this end the book starts with the simple discrete exponential growth model as a building block and successively refines it This involves adding variable growth rates multiple variables fitting growth rates to data including random elements testing exactness of fit using computer simulations and moving to a continuous setting No advanced knowledge is assumed of the reader making this book suitable for elementary modeling courses The book can also be used to supplement courses in linear algebra differential equations probability theory and statistics □□□□□□□□, 1990 *Forthcoming Books* Rose Arny, 1993-12

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