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his book grew out of the wish to let students of econometrics get acquainted t with the powerful techniques of computer algebra at an early stage in their curriculum as no textbook available at the time met our requirements as to content and presentation we had no other choice than to write our own course material the try out on a group of 80 first year students was not without success and after adding some necessary modifications the same material was presented to a new group of students of similar size the year after some more adjustments were made and the final result now lies before you working with computer algebra packages like derive mathematica and maple over many years convinced us of the favourable prospects of computer algebra as a means of improving the student s understanding of the difficult concepts on which mathematical techniques are often based moreover

advanced mathematical ed ucation be it for mathematics itself or for mathematical statistics operations research and other branches of applied mathematics can greatly profit from the large amount of non trivial mathematical knowledge that is stored in a computer algebra system admittedly the fact remains that many a tough mathematical problem such as solving a complicated non linear system or obtaining a finite ex pression for a multiple parameter integral can not easily be handled by computer algebra either if at all

interactive operations research with maple methods and models has two ob jectives to provide an accelerated introduction to the computer algebra system maple and more importantly to demonstrate maple s usefulness in modeling and solving a wide range of operations research or problems this book is written in a format that makes it suitable for a one semester course in operations research management science or quantitative methods a nwnber of students in the departments of operations research management science oper ations management industrial and systems engineering applied mathematics and advanced mba students who are specializing in quantitative methods or opera tions management will find this text useful experienced researchers and practi tioners of operations research who wish to acquire a quick overview of how maple can be useful in solving or problems will find this an excellent reference maple s mathematical knowledge base now includes calculus linear algebra ordinary and partial differential equations nwnber theory logic graph theory combinatorics statistics and transform methods although maple s main strength lies in its ability to perform symbolic manipulations it also has a substantial knowledge of a large nwnber of nwnerical methods and can plot many different types of attractive looking two dimensional and three dimensional graphs after almost two decades of continuous improvement of its mathematical capabilities maple can now boast a user base of more than **300 000** academics researchers and students in different areas of mathematics science and engineering

helps students understand mathematical programming principles and solve real world applicationssupplies enough mathematical rigor yet accessible enough for undergraduatesintegrating a hands on learning approach a strong linear algebra focus maple software and real world applications linear and nonlinear programming with maple an interactive

this book provides a systematic approach for the algorithmic formulation and implementation of mathematical operations in computer algebra programming languages the viewpoint is that mathematical expressions represented by expression trees are the data objects of computer algebra programs and by using a few primitive operations that analyze and

cd rom contains extensive maple code worksheets supplementary material for instructors

this introductory textbook explains the concepts and methods of data and error analysis needed for laboratory experiment write ups especially physics and engineering experiments the book contains the material needed for beginning students

2

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e g first year university students college students enrolled on a certificate or diploma course and even a level students nevertheless it also covers the required material for higher year university laboratories including the final year only essential concepts and methods needed for the day to day performance of experiments and their subsequent analysis and presentation are included and at the same time presented as simply as possible non essential detail is avoided chapter five is a stand alone introduction to probability and statistics aimed at providing a theoretical background to the data and error analysis chapters one to four computer methods are introduced in chapter six the author hopes this book will serve as a constant reference

some of the most challenging problems in science and engineering are being addressed by the integration of computation and science a research eld known as computational science computational science plays a vital role in fundamental advances in biology physics chemistry astronomy and a host of other disciplines this is through the coordination of computation data management access to instrumentation knowledge synthesis and the use of new devices it has an impact on researchers and practitioners in the sciences and beyond the sheer size of many challenges in computational science dictates the use of supercomputing parallel and distri ted processing grid based processing advanced visualization and sophisticated algorithms at the dawn of the 21st century the series of international conferences on computational science iccs was initiated with a rst meeting in may 2001 in san francisco the success of that meeting motivated the organization of the cond meeting held in amsterdam april 21 24 2002 where over 500 participants pushed the research eld further the international conference on computational science 2003 iccs 2003 is the follow up to these earlier conferences iccs 2003 is unique in that it was a single event held at two di erent sites almost opposite each other on the globe melbourne australia and st petersburg russian federation the conference ran on the same dates at both locations and all the presented work was published in a single set of proceedings which you hold in your hands right now

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