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in this book we study theoretical and practical aspects of computing methods for mathematical modelling of nonlinear systems a number of computing techniques are considered such as methods of operator approximation with any given accuracy operator interpolation techniques including a non lagrange interpolation methods of system representation subject to constraints associated with concepts of causality memory and stationarity methods of system representation with an accuracy that is the best within a given class of models methods of covariance matrix estimation methods for low rank matrix approximations hybrid methods based on a combination of iterative procedures and best operator approximation andmethods for information compression and filtering under condition that a filter model should satisfy restrictions associated with causality and different types of memory as a result the book represents a blend of new methods in general computational analysis and specific but also generic techniques for study of systems theory ant its particularbranches such as optimal filtering and information compression best operator approximation non lagrange interpolation generic karhunen loeve

transform generalised low rank matrix approximation optimal data compression optimal nonlinear filtering

elementary differential equations second edition is written with the knowledge that there has been a dramatic change in the past century in how solutions to differential equations are calculated however the way the topic has been taught in introductory courses has barely changed to reflect these advances which leaves students at a disadvantage this second edition has been created to address these changes and help instructors facilitate new teaching methods and the latest tools which includes computers the text is designed to help instructors who want to use computers in their classrooms it accomplishes this by emphasizing and integrating computers in teaching elementary or ordinary differential equations many examples and exercises included in the text require the use of computer software to solve problems it should be noted that since instructors use their own preferred software this book has been written to be independent of any specific software package features focuses on numerical methods and computing to generate solutions features extensive coverage of nonlinear differential equations and nonlinear systems includes software programs to solve problems in the text which are located on the author s website contains a wider variety of non mathematical models than any competing textbook this second edition is a valuable up to date tool for instructors teaching courses about differential equations it serves as an excellent introductory textbook for undergraduate students majoring in applied mathematics computer science various engineering disciplines and other sciences they also will find that the textbook will aide them greatly in their professional careers because of its instructions on how to use computers to solve equations

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applied scientists the material is also suitable for undergraduate and beginning graduate students as well as for review by practising engineers

master the numerical simulation process required to design test and support mobile and parallel computing systems an accompanying ftp site contains all the visual c based programs discussed in the text to help readers create their own programs with its focus on problems and solutions this is an excellent text for upper level undergraduate and graduate students and a must have reference for researchers and professionals in the field of simulations more information about visual c based programs can be found at ftp ftp wiley com public sci tech med numerical simulations

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ordinary differential equations and special functions form a central part in many branches of physics and engineering this book brings out some of the most important concepts associated with linear ordinary differential equations and the special functions of frequent occurrence each chapter is supplemented with a number of worked examples and problems to give the student a greater understanding of the subject

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