

Numerical Methods With Computer Programs In C

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formal methods in computer science gives students a comprehensive introduction to formal methods and their application in software and hardware specification and verification the first part introduces some fundamentals in formal methods including set theory functions finite state machines and regular expressions the second part focuses on logic a powerful formal language in specifying systems properties it covers propositional logic predicate logic temporal logic and model checking the third part presents petri nets the most popular formal language in system behavior modeling in addition to regular petri nets this part also examines timed petri nets and high level petri nets the textbook is ideal for undergraduate or graduate courses in computer engineering software engineering computer science and information technology programs parts of the book are useful reading material in undergraduate computer course and as a reference guide for students researching the area of formal system specification and validation

this second edition of compact numerical methods for computers presents reliable yet compact algorithms

for computational problems as in the previous edition the author considers specific mathematical problems of wide applicability develops approaches to a solution and the consequent algorithm and provides the program steps he emphasizes useful applicable methods from various scientific research fields ranging from mathematical physics to commodity production modeling while the ubiquitous personal computer is the particular focus the methods have been implemented on computers as small as a programmable pocket calculator and as large as a highly parallel supercomputer new to the second edition presents program steps as turbo pascal code includes more algorithmic examples contains an extended bibliography the accompanying software available by coupon at no charge includes not only the algorithm source codes but also driver programs example data and several utility codes to help in the software engineering of end user programs the codes are designed for rapid implementation and reliable use in a wide variety of computing environments scientists statisticians engineers and economists who prepare modify programs for use in their work will find this resource invaluable moreover since little previous training in numerical analysis is required the book can also be used as a supplementary text for courses on numerical methods and mathematical software

this book clearly presents the algorithms required for easy implementation of numerical methods in computer programming the book deals with the important topics of numerical methods including errors in numerical computation in a lucid style chapter end short questions with answers and appendices with theory questions and c programs are student friendly feature of the book

a second and third year text for courses in computer engineering and digital systems this work is concerned with the way in which the computer in its simplest form is a component in a system which can be used to

construct complex digital architectures

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