

Numerical Mathematics Computing 7th Edition

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authors ward chenev and david kincaid show students of science and engineering the potential computers have for solving numerical problems and give them ample opportunities to hone their skills in programming and problem solving numerical mathematics and computing 7th edition also helps students learn about errors that inevitably accompany scientific computations and arms them with methods for detecting predicting and controlling these errors

fully revised adesigned for the introductory computing and computer science course the student friendly computer science

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the seventh edition of the highly acclaimed fundamentals of computers lucidly presents how computer systems function both hardware and software aspects of computers are covered the book begins with how numeric and character data are represented in a computer how various input and output units function how different types of memory units are organized and how data is processed by the processor the interconnection and communication between the i o units the memory and the processor is explained clearly and concisely software concepts such as programming languages operating systems and communication protocols are discussed with growing use of wireless to access computer networks 4g and 5g cellular wireless communication systems wi fi wireless high fidelity and wimax have become important thus it has now become part of fundamental knowledge of computers and has been included in this edition besides this use of computers in multimedia processing has become commonplace and is explained with the increase in speed of networks and consequently the internet new computing environments such as peer to peer grid and cloud computing have emerged hence a chapter on this topic has been included artificial intelligence is revolutionising computing it has now become fundamental knowledge every student should know a new chapter on the basics of ai has been included in this edition this book is an ideal text for undergraduate and postgraduate students of engineering and computer science who study fundamentals of computers as a core course students of computer applications bca and mca and undergraduate students of management who should all know the basics of computer hardware and software it is ideally suited for working professionals who want to update their knowledge of fundamentals of computers key features fully updated retaining the style and all contents of the previous editions in depth discussion of both wired and wireless computer networks extensive discussion of analog and digital communications advanced topics such as multiprogramming virtual memory dma risc dsp rfid smart cards wigi 4g 5g novel i o devices and multimedia compression mp3 mpeg are described from first principles a new chapter on the basics of ai has been added for the first time in an entry level book each chapter begins with learning goals and ends with a summary to aid self study includes an updated glossary of over 350 technical terms used in the book target audience first course in computers in diploma courses as a core course in computers for engineering students b tech b e bca mca b sc computer science management students for whom the basics of computer science form a fundamental requirement for any reader professional with an inclination for a study of computers

authors ward cheney and david kincaid show students of science and engineering the potential computers have for solving numerical problems and give them ample opportunities to hone their skills in programming and problem solving numerical mathematics and computing 7th edition also helps students learn about errors that inevitably accompany scientific computations and arms them with methods for detecting predicting and controlling these errors important notice media content referenced within the product description or the product text may not be available in the ebook version

digital design and computer organization introduces digital design as it applies to the creation of computer systems it summarizes the tools of logic design and their mathematical basis along with in depth coverage of combinational and sequential circuits the book includes an accompanying cd that includes the majority of circuits highlighted in the text delivering you hands on experience in the simulation and observation of circuit functionality these circuits were designed and tested with a user friendly electronics workbench package multisim textbook edition that enables your progression from truth tables onward to more complex designs this volume differs from traditional digital design texts by providing a complete design of an ac based cpu allowing you to apply digital design directly to computer architecture the book makes minimal reference to electrical properties and is vendor independent allowing emphasis on the general design principles

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this 7th edition offers a cut down version which covers basic computing fundamentals without advanced topics such as information systems development and management programming and database management the core edition continues the tradition of providing a rigorous technology oriented approach to learning computing concepts the vision of this text is for future business professionals who need to possess a clear understanding of technology and the ability to utilize it effectively in a career setting where it will be widely used

presents an illustrated a z encyclopedia containing approximately 600 entries on computer and technology related topics

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