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primarily designed as a text for undergraduate students of computer science and engineering and information technology and postgraduate students of computer applications the book would also be useful to postgraduate students of computer science and it m sc computer science m sc it the objective of this book is to expose students to basic techniques in algorithm design and analysis this well organized text provides the design techniques of algorithms in a simple and straightforward manner each concept is explained with an example that helps students to remember the algorithm devising techniques and analysis the text describes the complete development of various algorithms along with their pseudo codes in order to have an understanding of their applications it also discusses the various design factors that make one algorithm more efficient than others and explains how to devise the new algorithms or modify the existing ones key features randomized and approximation algorithms are explained well to reinforce the understanding of the subject matter various methods for solving recurrences are well explained with examples np completeness of various problems are proved with simple explanation

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and methods related to the result what is computational design in the context of architectural practice and how is computation changing the processes of design and construction

this book constitutes the refereed proceedings of the 6th international conference on supercomputing isum 2015 held in méxico mexico in march 2015 the 38 revised full papers presented were carefully reviewed and selected from 102 submissions the papers are organized in topical sections on perspectives in supercomputer infrastructure and applications parallel algorithms and optimization hpc applications and simulations

while the computer hardware is a physical reality software is hard to describe it cannot be touched tasted or seen but it must be built and maintained it ages becomes obsolete and often breaks but not in the sense that a transistor or a disk drive fails it is this realization that separates the current view of software from that of 30 years ago what is software the computer articles reprinted in this volume explore some of the answers to that question the articles selected address four topics programming languages software creation data bases and applications

algorithm design introduces algorithms by looking at the real world problems that motivate them the book teaches students a range of design and analysis techniques for problems that arise in computing applications the text encourages an understanding of the algorithm design process and an appreciation of the role of algorithms in the broader field of computer science the full text downloaded to your computer with ebooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends ebooks are downloaded to your computer and accessible either offline through the bookshelf available as a free download available online and also via the ipad and android apps upon purchase you ll gain instant access to this ebook time limit the ebooks products do not have an expiry date you will continue to access your digital ebook products whilst you have your bookshelf installed

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