

# Foundations Of Computer Science 2nd Edition

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the book discusses the fundamentals of high performance computing the authors combine visualization comprehensibility and strictness in their material presentation and thus influence the reader towards practical application and learning how to solve real computing problems they address both key approaches to programming modern computing systems multithreading based parallelizing in shared memory systems and applying message passing technologies in distributed systems the book is suitable for undergraduate and graduate students and for researchers and practitioners engaged with high performance computing systems each chapter begins with a theoretical part where the relevant terminology is introduced along with the basic theoretical results and methods of parallel programming and concludes with a list of test questions and problems of varying difficulty the authors include many solutions and hints and often sample code

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walks through prague that both bring the history of the city to life and take the visitor on a fascinating journey through time the comprehensive guidebook to modern architecture of prague shows its development from the art nouveau and beginnings of the modern style at the turn of the 20th century the unique cubist buildings from the years before world war i the national style of the newly established czechoslovak republic the functionalist avantgarde of the inter war period the most remarkable examples of post world war ii buildings and the revival of architectural production after 1989 200 pages encompass 225 entries presenting buildings from 1900 to 1997 each of them contains a descriptive text black white period photographs selected entries are provided with plans city map on 14 gatefold pages registers according to architects chronology and typology the pocket sized book is an indispensable companion to everybody s discovering the vast architectural heritage of the czech capital

real time computing is one of the most demanding and challenging areas in computing it is also of great importance since real time software is indispensable to all ultra reliable and safety critical applications the objective of this book is to provide an introduction to the whole area of real time computing although it boundaries are not well defined the body of knowledge relevant to the study of real time systems encompasses a whole range of topics there are issues such as clocks specification design and modelling of real time systems which are exclusive to the study of real time systems there are also a number of fairly independant topics having applications outside real time systems but with a definite real time dimension the book supplies a framework for the study of real time systems facilitating a higher level of abstraction and a sharper focus on concepts and issues invariably this framework relies on mathematics but the mathematics are explained and kept to the minimum most chapters are self contained and each deals with a separate topic the exceptions are chapters 2 4 since they contain notations and concepts used elsewhere the occasional cross reference between chapters are intended to underlinethe coherence of the material rather than the dependence of topics

this text provides an account of real time systems the presentation makes use of recent research demonstrating the effectiveness and applicability of mathematically based methods for real time system design each chapter focuses on a particular technique and examples help reinforce the theory

this book provides a synthesis of the theory of programming it aims to use mathematical theory of programming to provide a similar basis for specification design and implementation of programs it is wide ranging both in its subject matter and also in its approach and style the first five chapters justify and introduce the main concepts and methods to be used within the text relating the goal of unification to the achievements of other branches of science and mathematics the remaining chapters introduce more advanced programming language features one by one the main methods of programming are summarised and concluded in a manner suitable for those already familiar with programming semantics definitions are accompanied by examples and the theorems by meticulous proof

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