# 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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computer has firmly carved its place in the human society computer makes our job easier and has reshaped our imagination the world of technology and computer systems is continuously evolving and has touched virtually each and every aspect of our lives the computer science success series is based on windows 10 and office 2016 this series is specially designed for providing a vast theoretical and practical knowledge of computers to the students it is the most comprehensive series in which activity and tool based approach is incorporated each chapter in the book begins with an engaging introduction followed by an activity based approach to learning which is supported with ample number of diagrams pictures and relevant screenshots the exercises in each chapter have sufficient practical and activity based questions interesting software like ms paint has been taught in these books core features of computer science success series for classes 1 and 2 are learning objectives describes the goals required to be achieved by the end of the chapter chapter contents concepts are explained to strengthen the knowledge base of the students do and learn provides activities that helps in learning the concepts being taught know more gives extra and useful information on the topic being covered summary gives a brief summary of the topics being taught in the chapter exercises includes a variety of questions to evaluate the theoretical knowledge of the students activity zone gives activities that helps the students to connect the concepts taught through life experiences learn with fun gives instructions to the students for performing various tasks teacher s notes gives suggestions to the teachers to make learning better periodic tests four periodic tests are included to evaluate the knowledge of the students model test papers two model test papers covering questions from all the chapters are included in the middle and towards the end of the book project work a set of projects has been designed to challenge the students to apply the concepts learnt cyber olympiad gives a sample cyber olympiad question paper to test the knowledge of the students practice assignments in a separate booklet includes both practice assignments and quizzes that helps the students to understand the topics given in the chapter thoroughly goyal brothers prakashan

real time computing is one of th 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 bit 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 specificiation 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 deinite 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 issued 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 depence 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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