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# **Computer Fundamentals**

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**PRADEEP K. SINHA**

**PRITI SINHA**



# Computer Fundamentals Pradeep K Sinha

**JA Banks**



## **Computer Fundamentals Pradeep K Sinha:**

Computer Fundamentals Pradeep K. Sinha, Priti Sinha, 2021 This widely popular book is designed to introduce its readers to important concepts in Computer Science      **Foundations of Computing** Pradeep K. Sinha, Priti Sinha, 2022-12-12

DESCRIPTION If you wish to have a bright future in any profession today you cannot ignore having sound foundation in Information Technology IT Hence you cannot ignore to have this book because it provides comprehensive coverage of all important topics in IT Foundations of Computing is designed to introduce through a single book the important concepts of the Foundation Courses in Computer Science CS Computer Applications CA and Information Technology IT programs taught at undergraduate and postgraduate levels WHAT YOU WILL LEARN Characteristics Evolution and Classification of computers Binary Octal and Hexadecimal Number systems Computer codes and Binary arithmetic Boolean algebra Logic gates Flip Flops and Design of Combinational and Sequential Circuits Computer architecture including design of CPU Memory Secondary storage and I O devices Computer software how to acquire software and the commonly used tools and techniques for planning developing implementing and operating software systems Programming languages Operating systems Communication technologies Computer networks Multimedia computing and Information security Database and Data Science technologies The Internet Internet of Things IoT E Governance Geo informatics Medical Informatics Bioinformatics and many more WHO THIS BOOK IS FOR Students of CS CA and IT will find the book suitable for use as a textbook or reference book Professionals will find it suitable for use as a reference book for topics in CS CA and IT Applicants preparing for various entrance tests and competitive examinations will find it suitable for clearing their concepts of CS CA and IT Anyone else interested in developing a clear understanding of the important concepts of various topics in CS CA and IT will also find this book useful TABLE OF CONTENTS Letter to Readers Preface About Lecture Notes Presentation Slides Abbreviations 1 Characteristics Evolution And Classification Of Computers 2 Internal Data Representation In Computers 3 Digital Systems Design 4 Computer Architecture 5 Secondary Storage 6 Input Output Devices 7 Software 8 Planning The Computer Program 9 Programming Languages 10 Operating Systems 11 Database And Data Science 12 Data Communications and Computer Networks 13 The Internet and Internet Of Things 14 Multimedia Computing 15 Information Security 16 Application Domains Glossary Index Know Your Author      **Computer Fundamentals** Pradeep K. Sinha, Priti Sinha, 2004-11      **Data Intensive Computing Applications for Big Data** Mamta Mittal, Valentina Emilia Balas, D. Jude Hemanth, Raghvendra Kumar, 2018-01-15 The book Data Intensive Computing Applications for Big Data discusses the technical concepts of big data data intensive computing through machine learning soft computing and parallel computing paradigms It brings together researchers to report their latest results or progress in the development of the above mentioned areas Since there are few books on this specific subject the editors aim to provide a common platform for researchers working in this area to exhibit their novel findings The book is intended as a reference work for advanced undergraduates

and graduate students as well as multidisciplinary interdisciplinary and transdisciplinary research workers and scientists on the subjects of big data and cloud parallel and distributed computing and explains didactically many of the core concepts of these approaches for practical applications It is organized into 24 chapters providing a comprehensive overview of big data analysis using parallel computing and addresses the complete data science workflow in the cloud as well as dealing with privacy issues and the challenges faced in a data intensive cloud computing environment The book explores both fundamental and high level concepts and will serve as a manual for those in the industry while also helping beginners to understand the basic and advanced aspects of big data and cloud computing

**INFORMATION TECHNOLOGY : THEORY AND PRACTICE** SINHA, PRADEEP K.,SINHA, PRITI,2016-03-14 This book is based on the premise that knowledge of Information Technology IT is essential today for people in every walk of life and all types of profession It is designed to impart a unified body of knowledge and practice in IT to its readers Readers can apply this knowledge in innovative ways for various strategic advantages such as increasing productivity improving quality of products and services problem solving decision making and improving their own and others living standards The textbook takes a practical approach to introduce the various components of IT to its readers While doing so it demonstrates how IT is being used in modern enterprises by various departments to carry out their activities with greater ease speed and accuracy than before It also introduces several new business models and practices made possible due to IT that enterprises are now using for better profitability In the process the book provides to its readers a sound foundation of various components and aspects of IT It also introduces to its readers several latest concepts and technologies in IT such as Wearable computers Green computing Cloud computing Speech recognition and voice response systems 4G and 5G networks Big data analytics Data science Web 3 0 IPv6 3D printing Enterprise 2 0 organization etc

**C Programming** Sisir Kumar Jena,2021-12-28 The C programming language is a popular language in industries as well as academics Since its invention and standardized as ANSI C several other standards known as C99 C11 and C17 were published with new features in subsequent years This book covers all the traits of ANSI C and includes new features present in other standards The content of this book helps a beginner to learn the fundamental concept of the C language The book contains a step by step explanation of every program that allows a learner to understand the syntax and builds a foundation to write similar programs The explanation clarity exercises and illustrations present in this book make it a complete textbook in all aspects Features Other than ANSI C the book explains the new C standards like C99 C11 and C17 Most basic and easy to follow programs are chosen to explain the concepts and their syntax More emphasis is given to the topics like Functions Pointers and Structures Recursion is emphasized with numerous programming examples and diagrams A separate chapter on the command line argument and preprocessors is included that concisely explains their usage Several real life figures are taken to explain the concepts of dynamic memory allocation file handling and the difference between structure and union The book contains more than 260 illustrations more than 200 programs and exercises

at the end of each chapter This book serves as a textbook for UG PG courses in science and engineering The researcher postgraduate engineers and embedded software developers can also keep this book as reference material for their fundamental learning

**Computing Fundamentals and Programming in C** Nasib Singh Gill, The complete spectrum of computing fundamentals starting from abc of computer to internet usage has been well covered in simple and readers loving style The language used in the book is lucid is easy to understand and facilitates easy grasping of concepts The chapter have been logically arranged in sequence The book is written in a reader friendly manner both the students and the teachers Most of the contents presented in the book are in the form of bullets organized sequentially This form of presentation rather than in a paragraph form facilitates the reader to view understand and remember the points better The explanation is supported by diagrams pictures and images wherever required Sufficient exercises have been included for practice in addition to the solved examples in every chapter related to C programming Concepts of pointers structures Union and file management have been extensively detailed to help advance learners Adequate exercises have been given at the end of the every chapter Pedagogy followed for sequencing the contents on C programming supported by adequate programming examples is likely to help the reader to become proficient very soon 200 problems on C programming their solutions 250 Additional descriptive questions on C programming

**Strategies of Winning Organizations** Upinder Dhar,Santosh Dhar,Vinit Singh Chauhan,2006 Contributed articles with special reference to India and Bangladesh articles to be presented in a conference later which was organized by Prestige Institute of Management and Research

Distributed Operating Systems Pradeep K. Sinha,1997 Distributed Operating Systems will provide engineers educators and researchers with an in depth understanding of the full range of distributed operating systems components Each chapter addresses de facto standards popular technologies and design principles applicable to a wide variety of systems Complete with chapter summaries end of chapter exercises and bibliographies Distributed Operating Systems concludes with a set of case studies that provide real world insights into four distributed operating systems

**Process Modeling and Management for Healthcare** Carlo Combi,Giuseppe Pozzi,Pierangelo Veltri,2017-11-09 From the Foreword This book provides a comprehensive overview of the fundamental concepts in healthcare process management as well as some advanced topics in the cutting edge research of the closely related areas This book is ideal for graduate students and practitioners who want to build the foundations and develop novel contributions in healthcare process modeling and management Christopher Yang Drexel University Process modeling and process management are traversal disciplines which have earned more and more relevance over the last two decades Several research areas are involved within these disciplines including database systems database management information systems ERP operations research formal languages and logic Process Modeling and Management for Healthcare provides the reader with an in depth analysis of what process modeling and process management techniques can do in healthcare the major challenges faced and those challenges remaining to be faced The book features contributions from

leading authors in the field The book is structured into two parts Part one covers fundamentals and basic concepts in healthcare It explores the architecture of a process management environment the flexibility of a process model and the compliance of a process model It also features a real application domain of patients suffering from age related macular degeneration Part two of the book includes advanced topics from the leading frontiers of scientific research on process management and healthcare This section of the book covers software metrics to measure features of the process model as a software artifact It includes process analysis to discover the formal properties of the process model prior to deploying it in real application domains Abnormal situations and exceptions as well as temporal clinical guidelines are also presented in depth Pro Better Life ,2007 *Reverse Engineering* C. Werner Dankwort,2012-12-06 Looking at modern industrial products one can recognize a variety of different complex shapes All these products are not only designed they are styled Everybody knows about the importance of styling if the product is a car but today even simple consumer appliances do not only have to fulfil their function they must also look nice In addition even purely technical products like turbines or valves are designed with very complex shapes to make them work more efficiently Thus optimising the shape of products is one of the key factors in the process chain of development Today there are various CAx systems which have evolved to be the basic tools for design calculation simulation and manufacturing in almost all kinds of industrial environments but the improvement of the product s shape is in most cases done manu ally on the physical model This break in the CAD information flow can be overcome with REVERSE ENGINEERING techniques reconstructing the shape describing CAD surfaces Bezier NURBS surfaces or others from the modified physical model nd Therefore the 2 Workshop on current CAx problems was dedicated to REVERSE ENGINEERING During the workshop were presented the newest research results of surface reconstruction for a given set of points the methods and tools for problems in Reverse Engineering of some of the most important CAD vendors Holometric Technology IBM Dassault ICEM Imageware Matra Data vision Tebis Additionally structural aspects in Reverse Engineering possible future developments and new research directions were discussed Foundations of Computing Pradeep K. Sinha,2003 **Books In Print 2004-2005** Ed Bowker Staff,Staff Bowker, Ed,2004 **Computer Graphics SIGGRAPH**.,1996 Subject Guide to Books in Print ,1991 *Indian Book Industry* ,1985 **International Books in Print** ,1990 Computer Fundamentals , **Digital Computer Fundamentals** Thomas C. Bartee,1985

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