

<<计算机基础>>

图书基本信息

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前言

We live in a technology-driven world, where almost everything is automated. The last two decades have seen a renaissance in the world of innovations. We have seen doctors perform surgery by sitting miles away from their patients. The fashion industry is soon to replace supermodels with robots (one such, the HRP-4C, was recently unveiled in Tokyo). There are similar advances being made in every field, all of whose foundations are based on computers. It can often be perplexing for a beginner to keep pace with such developments. To be lost in the world of codes and bytes can be nerve-racking. And this is where a text book of this nature comes in.

Written assuming absolutely no prior knowledge of computers, this book carries the reader through the world of Computers in a simple and structured manner. There are certain things that this book achieves and some it doesn't. If you are looking for an exhaustive discussion on topics like DBMS and Computer Networks, this book is not meant for you. I would rather have you pick up books written by a Forouzan or a Gehrke. This book will not make you go through miles of C programming codes. So, if you want a good discussion on C implementation, I would rather have you pick my ANSI C book. What this book does aim to achieve is to give you an eye opener, a mild introduction, to the fascinating world of Computers. It will show you the basic building blocks of a computer, how they interact among each other, what are the various input and output devices and how a computer interprets and understands your language. It also gives an introduction to the various software that are popularly used on desktop computers. Seeing the importance of programming in today's world, I have also provided a chapter on C programming, which serves as an introduction to this amazingly powerful language. There indeed are several books that flood local book shops on this subject. So why should you use this one ?

The answer is simple; I haven't written this book keeping a specific audience in mind. Whether you are a school student, a budding engineer pursuing technical education, or simply an inquisitive being in search of an appropriate introduction to computers, chances are I have kept all your requirements in mind while writing. I have kept the language at a level that can be accessed by one and all, and yet kept the discussions thorough and focused. More specifically, it can be used by the following: Students pursuing DCA, BSc (IT) , BCA, MCA, MSc (IT) , DOEACC 'O' Level courses Students pursuing first-year engineering course in computers Students pursuing BBA, MBA and MCM courses Students pursuing short-term courses in various IT training institutes Self-learners for acquiring knowledge on various computer components, be it software or hardware. Finally, this book is for everyone who is either excited about computers or interested in knowing more about computers. This book is impregnated with several salient features: A complete self-study material for obtaining basic knowledge and understanding of various hardware and software components of computers. Covers Microsoft Office suite of software such as MS Word and MS Excel in great detail. Concepts are explained using ample number of illustrations and screen shots for visualisation of the commands.

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内容概要

本书用简洁的语言和丰富的示例，介绍了计算机的各种硬件和软件知识，并以简单易学的方法，把计算机理论知识与实际应用巧妙结合起来，为读者认识计算机，进一步学习计算机软硬件知识打下坚实基础。

本书多达112个含解答的示例、329道复习题、315道选择题、325道填空题，是高等院校“计算机导论”和“计算机英语”课程的理想教材。

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章节摘录

插图：11.9.1 Batch Processing Operating Systems The batch processing operating systems are capable of executing only one job at a time. The jobs or the programs submitted by different users are grouped into batches and one batch of jobs is provided as input to the computer system at a time. The jobs in the batch are processed on the first-come-first-serve basis. After getting an appropriate command from the operator, the batch processing operating system starts executing the jobs one-by-one. The execution of a particular job generally involves three major activities, which are reading the job from the input device; executing the job by the system and printing the calculated result onto the output device. After the execution of one job is complete, the operating system automatically fetches the next job from the batch without any human intervention. The following are some of the advantages of batch processing operating systems: The computer systems employing the batch processing operating systems were very efficient computer systems of their times because the idle time for these systems was very small. These operating systems facilitated the execution of jobs in an organised manner. The following are some of the disadvantages of batch processing operating systems: The jobs are processed only in the order in which they are placed in a batch and not as per their priority. The debugging of a program at execution time is not possible in these operating systems. The executing jobs may enter an infinite loop, as each job is not associated with a proper timer.

11.9.2 Multi-user Operating Systems The multi-user operating systems enable multiple users to use the resources of a computer system at the same time. In other words, a multi-user operating system allows a number of users to work simultaneously on the same computer system. These types of operating systems are specially designed for the multi-user systems. A multi-user system is usually implemented by following the multi-terminal configuration. In this type of configuration, a single powerful computer system is connected to multiple terminals through serial ports. This computer system is responsible for processing the different requests generated by the various terminals at the same time. The devices connected with the various terminals are keyboard, mouse, and monitor. The central computer system is equipped with a fast processor and a memory of large capacity for catering to the multiple requests of the end users. Examples of multi-user operating system include Unix, Linux, Windows 2000 and VM-386. The following are some of the advantages of the multi-user operating systems: It allows the resources of the computer system to be utilised in an efficient manner. It enhances the overall productivity of the various users by providing simultaneous access to the various computer resources. The following are the disadvantages of the multi-user operating systems: The configuration of the computer system employing multi-user operating system is complex and hence, is difficult to handle and maintain. This type of system may result in an inconsistent data if the activities of one user are not protected from another user. This type of operating system is required to have robust security mechanisms.

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