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微机用于工程设计CAD的几个问题

何麟书

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ON IMPLEMENTING AN INTERACTIVE ENGINEERING CAD SYSTEM IN A MICROCOMPUTER

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摘要

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摘要 一、前言 目前全国微型计算机 (Microcomputer, Personal Computer, Homecomputer) 已相当普及,但使用率并不高,原因很多,主要原因之一,是不知道或拿不准,在上面建一个什么样的系统为好。另外,看到各种眼花缭乱的商品应用软件,也拿不定主意买什么,用什么为好。或者买来之后,发现并不完全合用,以至陷入“食之无味,弃之可惜”的困境。我认为,微机由于其硬件的限制,不适宜在上面建大系统或通用性强的系统。就拿现有的一些商品应用软件来看,也是一些专

关键词:

Abstract: In order to implement a small specialized computer aided design (CAD) software system in a microcomputer (IBM-PC is taken for the sample in this paper), the following problems, must be solved: 1. Must a DBMS (Data Base Management System) be used in a small specialized CAD software system? For a small specialized CAD system the types of the data are not complex, so the DBMS is not necessary. The file management system supported by the OS (Operating System, for example, DOS-Disk Operating System in IBM-PC) can be used to manage the data. 2. How to connect the subprogram modules in the CAD system. Each subprogram module can be stored in a disk as a file, and a "menu" is used to invoke these files, The SHELL statement of IBM-PC BASICA is recommended to deal with the connection of the subprograms written in different languages (e.g. FORTRAN or PASCAL). 3. Which interactive language is suitable for our purpose IBM-PC BASICA is the simplest one, Which has graphics functions and sound effects. 4. How to establish a graphics data base? Using TREE structure of the file management system supported by IBM-PC DOS. a hierarchical structure of the graphics data base can be constructed. Three methods have been presented to transform the graphics into data file.

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