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微控DMA原理及其在测控领域的应用

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MICROPROGRAMMING-CONTROLLED DIRECT MEMORY ACCESS AND ITS APPLICATION IN THE FIELD OF TEST,MEASUREMENT AND CONTROL

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摘要

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摘要 提出了一种基于微编程的新型DMA方式——微控DMA (microprogramming-Controlled DMA) 及以此为核心,借助于大容量存储区提供的系统紧耦合能力,建构通用多功能微机数据系统的原理,并探讨了该实际系统在测量、测试、控制及微机数据网络等领域的广泛应用前景。

关键词: 记忆-存取控制 微程序设计 微型计算机-数据系统 试测量

Abstract: new Direct Memory Access(DMA)based on microprogramming, Microprogramming-Controlled Direct Memory Access(MCDMA)is presented,and the constructional mechanism of a universal microcomputer data system depending on MCDMA and tight-coupling structure of bulk memory is proposed. In the end, the wide application of this system in the field of test, measurement, control and microcomputer data network is approached.

Keywords: memory-access control microprogramming microcomputers-data systems measurement

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