基于GPIB总线的任意波形信号发生器自动测试系统设计

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摘　要：本文介绍基于GPIB总线的任意波形信号发生器自动测试系统的设计，详细阐述系统的硬件组成和软件设计。该系统采用Microsoft最新的Visual Studio.NET(VS)平台，实现对任意波形发生器的实时测量控制、测量结果处理以及数据库设计等，从而大大提高任意波形发生器的测试精度和测试效率。经使用验证，可用于实际测试中。

关键词：GIPB总线,自动测试系统,任意波形信号发生器

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Design of automatic test system for arbitrary generator based on GPIB bus

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Abstract：The paper presents the design ,including hardware and software of automatic test system for arbitrary generator based on GPIB bus in detail.The system realizes realtime test control,test data processing and database design of arbitrary generator under the new Visual Studio.NET(VS) platform of Microsoft,accordingly it improves the test accuracy and test efficiency of arbitrary generator greatly.The system is verified by the practical use and can be applied to the daily test.

Key words：GPIB bus,Automatic test system,Arbitrary generator

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