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数字化的核反应堆物理启动系统的研制和应用

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介绍了数字化物理启动系统的构成和基本工作原理,及其在 10MW高温气冷实验堆物理启动试验过程 中的首次成功运用。实践证明:该系统不但运行可靠,计算迅速准确,减轻了人员劳动强度,且与同类模拟系统 相比,具有实时监测显示、试验结果透明度高的特点。

关键词 核反应堆 物理启动 数字化

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Study and Application of Digital Physical Start-up System for Nuclear Reactor

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Abstract The digital physical start-up system for nuclear reactor is introduced. The system was u sed successfully in physical start-up experiment of 10 MW high-temperature gas-cooled reactor. It is proved practically that the system not only runs reliably and calculates both rapidly and corre ctly and relieves the loads of operators, but also has the better characters of monitoring and showi ng the real-time results of experiments than the analog systems.

Key words nuclear reactor physical start-up digitalisation

DOI

通讯作者

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