

反应堆工程

可组装模块在高温气冷堆全范围仿真机中的应用

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摘要 鉴于目前反应堆全范围仿真机的开发周期长、升级困难、适用范围窄这一状况, 借鉴Linux操作系统内核所采用的可安装模块, 研究提出可动态组装模块方案, 并将其应用到仿真机系统的设计上, 成功地开发出构成模块可组装的高温气冷堆全范围仿真机系统。仿真结果表明: 采用可组装模块方案设计高温气冷堆全范围仿真机系统是完全可行的。

关键词 [可组装模块](#) [高温气冷堆](#) [全范围仿真机](#) [Linux内核](#)

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Abstract According to the circumstances that exist in the reactor full-scope simulators development as long development cycle, very difficult upgrade and narrow range of applicability, a kind of new model was developed based on assembly module which root in Linux kernel and successfully applied to the design of high-temperature gas-cooled reactor full-scope simulator system. The simulation results are coincident with the experimental ones, and it indicates that the new model based on assembly module is feasible to design of high-temperature gas-cooled reactor simulation system.

Key words [assembly module](#) [high-temperature gas-cooled reactor](#) [full-scope reactor simulator](#) [Linux kernel](#)

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