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基于神经网络和概率安全分析的核电站故障诊断

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对基于神经网络和概率安全分析 (PSA)的故障诊断模型进行了研究,利用部分参数建立了模型和编制 了相应的网络程序,并提出了利用PSA的成果和其定量化的指标分析简化诊断对象,取得了很好的效果。 核电站 安全性 故障诊断 神经网络 概率安全分析 专家系统

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Fault Diagnosis Expert System for Nuclear Power Station Based on Neural Network and Probabilistic Risk Analysis ZHANG He-lin 1, HUANG Wei-gang 2, LIU Xiao-bo 1, ZHANG Qin-shun 1, DAI Zh ▶文章反馈 eng-xi 1 (1 School of Mechanical and Power Engineering, Shanghai Jiaotong ▶浏览反馈信息 University, Shanghai 200030, China; 2 Office of Safety and License, Guang dong Daya Bay Nuclear Power Station, Shenzhen 518124, China)

Abstract Fault diagnosis model of nuclear power station, which is based on neural network and probabilistic risk analysis (PSA) theory, is studied. By utilizing sort of parameters, a detailed corre sponding network program is developed. Furthermore, the work shows good result of application of PSA to filtrate and analyze the diagnosis objects.

Key words nuclear power station safety fault diagnosis neural network probabilistic safety analysis expert system

DOI

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