

purpose, the experiment measuring the neutron noise is simulated, and it results that the original equation is approximately valid. However, it is judged that the explanation on the equation by the authors derived it for the first time is not so correct, but Orndoff who made the first experiment by the Ross- α technique explained it rather correctly.

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A Methodology for Quantitative Evaluation of Dynamic Aspects of NPP Fault Diagnostic Systems

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Abstract

Evaluation is an important issue for expert systems, such as fault diagnostic systems. The purposes of this study are 1) to define the evaluation criteria of dynamic aspects in fault diagnostic systems of nuclear power plants (NPPs) and 2) to propose the quantification methodology of the criteria. The hierarchy of the evaluation criteria is described in detail. Quantification methods are effectively proposed with simple numerical expressions. Our classification and quantification will make it possible to evaluate dynamic aspects of fault diagnostic systems systematically and objectively.