

轻水堆发展规划的核燃料循环模型及优化

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摘要 <正> 一、前言 提高核燃料循环的经济性是增进核动力经济性极为重要的一环。国外有人提出利用动态线性规划方法,依据燃料循环中各环节内在的物理和化工过程,建立起一系列线性方

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分类号

THE NUCLEAR FUEL CYCLE MODEL AND OPTIMIZATION FOR LWR DEVELOPMENT PROGRAM

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Abstract In the paper, the nuclear fuel cycle optimization for economics and resource of natural uranium is analysed according to the program of nuclear power development in China during a 26-year period. The results show that considering the economic aim only, once through cycle is better according to recent cost. But if two aims for both the economics and uranium resource are considered, the reprocessing of spent fuel is better. The time of start of operation and the capacity of reprocessing plant and other factors affecting the fuel reprocessing are analysed.

Key words [Nuclear fuel cycle](#) [LWR](#) [Cost](#) [Optimization](#).

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