

论文

## NEUMANN SERIES SOLUTION TO A NEUTRON TRANSPORT EQUATION OF SLAB GEOMETRY

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收稿日期 修回日期 网络版发布日期 接受日期

**摘要** This paper deals with the solution to an energy, dependent stationary neutron transport equation of slab geometry. In  $L^p$  space, the equation is converted into an equivalent integral equation. By the study of the corresponding integral operator and its spectral radius, results of Neumann series solution are obtained, and an easy-verified condition that the transport equation has a nonnegative solution is given.

**关键词** [Neutron transport equation,series soluti](#)

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**Key words** [Neutron transport equation](#) [series solution](#) [spectral radius](#)

DOI:

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