

论文

ANALYSIS OF BOUNDARY SHAPE OF SOLUTIONS OF NONLINEAR PERTURBATION PROBLEM

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摘要 Using the monotone operator theory, we prove a convergent relation between solutions of a kind of nonlinear singular perturbation problem and their limit problem, and give a boundary integral identity which depicts the boundary shape of the perturbation solution according to the boundary condition coincidence between the perturbation solution and the limit solution. Furthermore, we obtain a similar result when a small perturbation is added to the right hand side of equation.

关键词 [Monotone operator, Tartar's inequality,](#)

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Key words [Monotone operator](#) [Tartar's inequality](#) [Pohozaev's identity](#) [boundary shape](#)

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