

EXISTENCE RESULTS FOR A NON LINEAR BOUNDARY VALUE PROBLEM ARISING IN KINETIC THEORY OF GAZ IN BOUNDED GEOMETRY

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Abstract

The present paper deals with the existence results on L^1 space for a nonlinear transport equation describing the continuous slowing down of electrons in a semiconductor or mettalic medium. Starting with our equation, we transform it in a fixed point problem by a new variant of Krasnosel'skii fixed point theorem for the weak topology involving weakly compact operators on nonreflexive Banach spaces, we give the existence results of the solution

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