

FRITZ-JOHN AND KUHN-TUCKER CONDITIONS IN NON-LINEAR PROGRAMMING

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ABSTRACT

In this paper we give necessary optimality conditions of Fritz-John and Kuhn-Tucker (KKT) conditions for non-linear infinite dimensional programming problem with operatorial constraints. We use an alternative theorem. Some of the known results in finite dimensional case have been extended to infinite dimensional case with suitable conditions.

KEYWORDS: Non-Linear Programming, Fritz-John Conditions, Karush-Kuhn-Tucker Conditions, Alternative Theorem