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r -convex transformability in nonlinear programming problems

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Abstract: We show that for r -convex transformable nonlinear programming problems the Karush-Kuhn-Tucker necessary optimality conditions are also sufficient and we provide a method of solving such problems with the aid of associated r -convex ones.

Keywords: nonlinear programming problem, r -convex transformability, sufficiency, the Karush-Kuhn-Tucker conditions

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