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Proceedings of the International Conference on Restoration, Recycling and Rejuvenation Technology for Engineering and Architecture Application; Cesena; Italy; 7 June 2004 through 11 June 2004; Code 64053

Applicability of duality theory to L.A. problems with undefined flow law (Conference Paper)

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Abstract

The paper refers to previous works developed by the authors, dealing with the possibility of applying duality theorems to non-linear programs with undefined flow law coming out from Limit Analysis (LA) of structures made by Not Resisting Tension (NRT) or No-Tension material. Under such perspective, after setting up the static or kinematic LA problem for NRT structures, the main task, for duality theorems to be applicable, is to demonstrate some convexity properties of the involved functions and domains. This feature, which is of basic importance for the whole procedure, is not trivial since all of the required conditions are to be accurately checked by analytical developments.

Author keywords

Convexity; Duality; Limit analysis; Non-linear programming; NRT material; Structural analysis

Indexed keywords

Convexity; Duality; Limit analysis (LA); Not resisting tension (NRT) material

Engineering controlled terms: Kinematics; Nonlinear programming; Operations research; Optimization; Problem solving; Theorem proving

Engineering main heading: Structural analysis

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