



A Newton Type Algorithm for Plastic Limit Analysis (Classic Reprint) (Paperback)

By V Gaudrat

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from A Newton Type Algorithm for Plastic Limit Analysis This paper presents a new computational method for plastic limit analysis, based on a Newton-type minimization algorithm for the kinematic variational principle, whose solution represents a possible collapse mechanism. The model of plastic limit analysis is by now well known, see e.g. [3, 7]. The upper and lower bound theorem [3] identifies the limit multiplier of a given load as: (i) the largest multiple of it which can be equilibrated by a statically admissible stress lying within a specified yield domain, and simultaneously as (ii) the minimum of a certain convex minimization problem among all velocity fields which do work against the load at a unit rate. The functional analytic setting of these problems has been clarified by Strang, Temam, and others [8, 9]. A common approach to the numerical solution of limit analysis problems is to approximate the yield domain by a polyhedral domain in stress space. Then the dual variational principles become a dual pair of linear programs, which may be solved, for example, using...

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