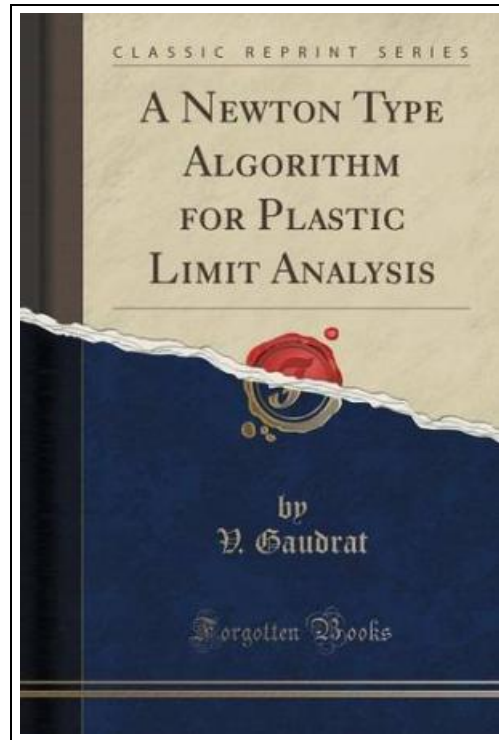


A Newton Type Algorithm for Plastic Limit Analysis (Classic Reprint)



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A NEWTON TYPE ALGORITHM FOR PLASTIC LIMIT ANALYSIS (CLASSIC REPRINT)



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 the simplex method [2]. This approach is not without disadvantages, however: the linear programming problems one arrives at are very large and highly degenerate. As a consequence, the development of improved algorithms for computing limit multipliers has been an area of continued attention, especially for problems of plane stress, plate theory, and three-dimensional structures, see e.g. [1, 4]. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst...



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