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Direct Methods for Limit and Shakedown Analysis of Structures

direct methods of limit and shakedown analysis that were presented at the Fourth International Workshop on Direct Methods (DM2013), held at the Mediterranean University of Reggio Calabria, Italy

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Articles in this book examine various materials and how to determine directly the limit state of a structure, in the sense of limit analysis and shakedown analysis.

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The workshop on Direct Methods - Shakedown and Limit Analysis was held on Nov. 08, 09, 2007 at Rheinisch-Westfälische Technische Hochschule (RWTH) Aachen, Germany on the initiative of Dieter Weichert (Aachen) and Alan Ponter (Leicester).

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Readers will discover that Direct Methods and the techniques presented here can in fact be used to numerically estimate the strength of structured materials such as composites or nano-materials, which represent fruitful fields of future applications. Leading researchers outline the latest computational tools and optimization techniques and explore the possibility of obtaining information

Limit and shakedown isogeometric analysis of structures ...

1. Introduction. Limit and shakedown analysis plays the main role in assessing safety and designing engineering structures. Various applications of limit and shakedown analysis have become popular in nuclear power plants, chemical industry, metal forming and civil engineering.

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Direct Methods for Limit States in Structures and ...

Knowing the safety factor for limit states such as plastic collapse, low cycle fatigue or ratcheting is always a major design consideration for civil and mechanical engineering structures that are subjected to loads. Direct methods of limit or shakedown analysis that proceed to directly find the

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Maier, G., Carvelli, G. and Cocchetti, G. (2000). On direct methods of shakedown and limit analysis. Plenary Lecture, 4th EuroMech Solid Mechanics Conference, Metz, June. Google Scholar

A numerical formulation and algorithm for limit and ...
is to perform the limit and shakedown analysis of structures using the direct methods [1,2], which just need to know the interval of these applied loads. B Yinghua Liu yhliu@mails.tsinghua.edu.cn 1 Department of Engineering Mechanics, AML, Tsinghua University, Beijing 100084, People's Republic of China 2 Department of Mechanical and Aerospace Engineering, University of Strathclyde, Glasgow G1

Direct methods for limits in plasticity

Direct methods for limits in plasticity 173 2. Cyclic behaviour Consider a body with volume V and surface S . Part of S , namely S_T , is subjected to a cyclic history of load $P_i(x_i, t)$, while the remainder of S , namely

Limit load and shakedown analysis of plastic structures ...

In limit load analysis of plastic mechanical structures the problem is to maximise the load factor subject to the survival or safety conditions, consisting of the equilibrium equation and the so-called yield (feasibility) condition of the structure. In this paper plane frames are considered.

Limit and shakedown analysis of 3-D steel frames ...

The limit and shakedown analysis is based on the upper bound theorem while the rigid-plastic design is supported by the lower bound theorem. It is important to indicate here that in the case of frame structures both kinematic and statical methods lead to the same one and only solution. The geometrical nonlinearity is completely ignored in this direct method (by LP).