



# Limit State of Materials and Structures: Direct Methods 2

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### **Limit State of Materials and Structures: Direct Methods 2**

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To determine the carrying capacity of a structure or a structural element susceptible to operate beyond the elastic limit is an important task in many situations of both mechanical and civil engineering. The so-called "direct methods" play an increasing role due to the fact that they allow rapid access to the request information in mathematically constructive manners. They embrace Limit Analysis, the most developed approach now widely used, and Shakedown Analysis, a powerful extension to the variable repeated loads potentially more economical than step-by-step inelastic analysis.

This book is the outcome of a workshop held at the University of Sciences and Technology of Lille. The individual contributions stem from the areas of new numerical developments rendering this methods more attractive for industrial design, extension of the general methodology to new horizons, probabilistic approaches and concrete technological applications.



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