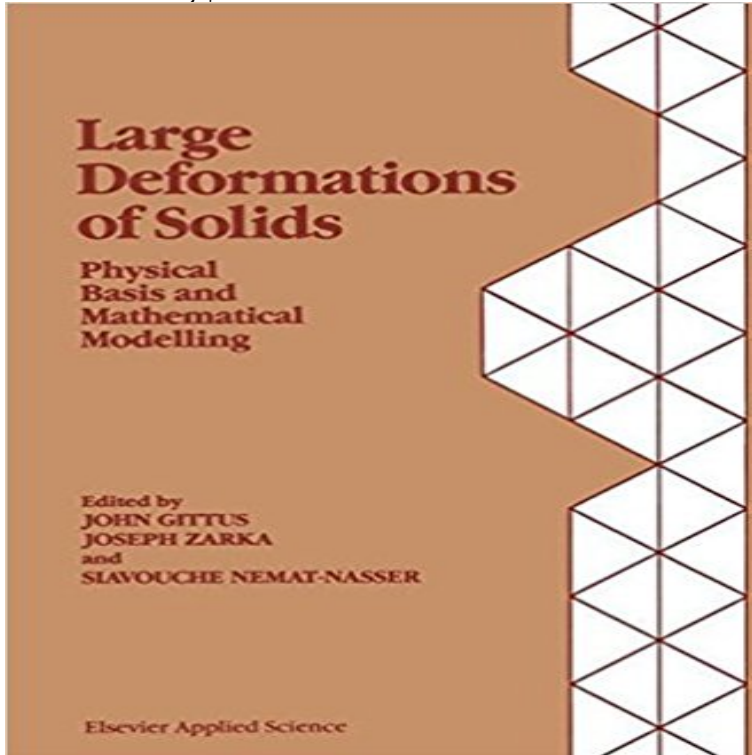


# Large Deformations of Solids: Physical Basis and Mathematical Modelling



A central problem in engineering is the deformation of structures. These may be structures made of metal, from concrete or other building materials, or from soil for example. Generally speaking, the engineer requires the deformation of a structure to be relatively small, predictable, tolerable and non-damaging. Professor Jean Mandel devoted a large part of his professional career to studies of deformation and he was successful in identifying principles and procedures of wide applicability. Accordingly, it is very appropriate to bring together as we do in this volume papers by world authorities concerned with deformation in memory of Professor Mandel. The papers in this volume were all invited contributions to an international CNRS colloquium which was held at the Ecole Polytechnique in Paris, 30 September-2 October 1985. The volume considers the deformation of metals, rocks, composites, soils, sand and wood. The microscopic processes and theory of deformation are treated, as are the general laws relating deformation with parameters such as stress system and temperature. A central problem which has been systematically attacked in the case of metals is the relationship between the behaviour of crystal defects such as dislocations and the deformation of a large specimen or engineering component. It should be possible to produce accurate predictions of macroscopic deformation from a microscopic model and substantial progress towards this end has been made in recent years. The first two sections of the book are largely concerned with progress in this very important area. A parallel theme which was established in earlier days is the development of continuum models for deformation. Such models were proposed at a time when microscopy had not de-

veloped to its present level of sophistication so that, for example, it was not established that v VI PREFACE crystals actually contained dislocations. The continuum theories which date back more than a century sought to explain microscopic deformation in terms of abstract models involving mechanical elements of which the spring and the dashpot were prominent examples. From a strictly practical standpoint these continuum models still have great utility today, particularly in areas where the materials are so complicated that the preferred route, linking microscopic behaviour with macroscopic behaviour, is not yet available. Section 3 of the book is concerned therefore with the continuum point of view for metals.

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