



**IUTAM Symposium on Computational Mechanics
of Solid Materials at Large Strains: Proceedings of
the IUTAM Symposium held in Stuttgart,
Germany, 20-24 August 2001 (Solid Mechanics and
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The steady increase in computational power induces an equally steady increase in the complexity of the engineering models and associated computer codes. This particularly affects the modeling of the mechanical response of materials. Material behavior is nowadays modeled in the strongly nonlinear range by taking into account finite strains, complex hysteresis effects, fracture phenomena and multiscale features. Progress in this field is of fundamental importance for many engineering disciplines, especially those concerned with material testing, safety, reliability and serviceability analyses of engineering structures. In recent years many important achievements have been made in the field of the theoretical formulation, the mathematical analysis and the numerical implementation of deformation processes in solids. Computational methods and simulation techniques today play a central role in advancing the understanding of complex material behavior. Research in the field of "Computational Mechanics of Materials" is concerned with the development of mathematical models and numerical solution techniques for the simulation of material response. It is a very broad interdisciplinary field of science with inputs from traditional fields such as Applied Mechanics, Applied Mathematics, Materials Science, Solid State Physics and Information Technology. The intention of the IUTAM Symposium "Computational Mechanics of Solid Materials at Large Strains", held at the University of Stuttgart, Germany, from August 20-24, 2001, was to give a state of the art and a survey about recent developments in this field and to create perspectives for future research trends.

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