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Finite Inelastic Deformations - Theory and Applications

By Dieter Besdo

Springer Jan 2012, 2012. Taschenbuch. Book Condition: Neu. 235x155x30 mm. This item is printed on demand - Print on Demand Neuware - The IUTAM-Symposium on 'Finite Inelastic Deformations - Theory and Applications' took place from August 19 to 23, 1991, at the University of Hannover, Germany, with 75 participants from 14 countries. Scope of the symposium was a fundamental treatment of new developments in plasticity and visco-plasticity at finite strains. This covered the phenomenological material theory based on continuum mechanics as well as the treatment of microstructural phenomena detected by precise experimental data. In a restricted number, lectures on new experimental facilities for measuring finite strains were also implemented into the symposium. Another important topic of the symposium was the treatment of reliable and effective computational methods for solving engineering problems with finite inelastic strains. Within this context it was an essential feature that theory, numerical and computational analysis were seen in an integrated way. In total 9 sessions with 37 lectures, many of them given by well known keynote-lecturers, and a poster session with 10 contributions met fully our expectations of a high ranking up-to-date forum for the interaction of four topics, namely the physical and...



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