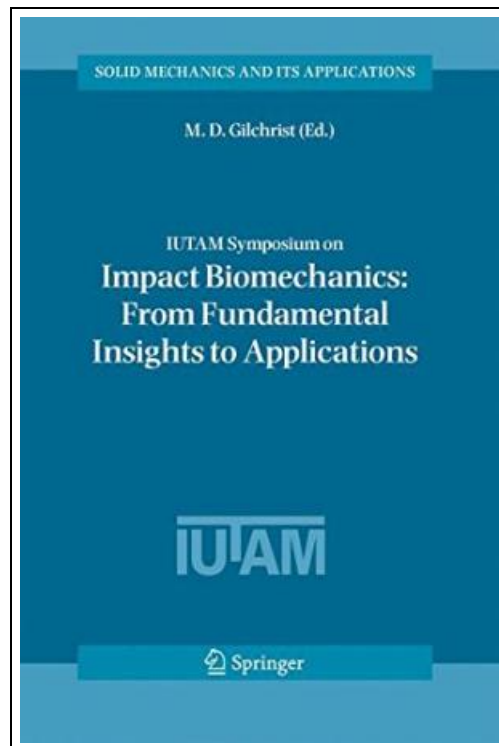


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Springer-Verlag New York Inc., United States, 2005. Hardback. Condition: New. 2005 ed.. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Substantial fundamental work has been undertaken in the different aspects of impact biomechanics over the past three decades. Much of this has been motivated and undertaken by the automotive industry in their efforts to improve transport safety. More recently, however, it has become apparent that the multidisciplinary synergies which are realised by interactions between engineers, scientists and clinical practitioners will ultimately lead to a greater understanding of the complex interacting phenomena within the human body after it has sustained an impact. In turn, this greater depth of knowledge will provide more fundamental insights into the analysis, diagnosis, treatment and prevention of impact injuries across a broader spectrum of accident environments. The scientific focus of this IUTAM symposium is to address those topics that are centrally important to the biomechanics of impact. These can be grouped into those that are concerned with the different causes of accidents (e.g., transport, occupational and sports injuries), the mechanics involved in accident analysis (e.g., accident investigation, computational modelling techniques), the different types of resulting traumatic injuries (including musculoskeletal, organ, spinal and head injuries), methods of assessing the extent of injury (e.g., injury assessment, injury criteria, constitutive laws for human tissue), and providing protection during an impact (e.g., injury prevention, energy absorption materials, and safety devices).



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