



# Trauma Biomechanics

*Kai-Uwe Schmitt, Prof. Dr. Prof. Dr. Peter F. Nieder ETH Zürich, Markus H. Muser, Felix Walz*

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Trauma biomechanics uses the principles of mechanics to study the response and tolerance level of biological tissues under extreme loading conditions. Through an understanding of mechanical factors that influence the function and structure of human tissues, countermeasures can be developed to alleviate or even eliminate such injuries. Trauma Biomechanics surveys a wide variety of topics in injury biomechanics including injury classification, injury mechanisms and injury criteria. Both injuries sustained in automotive accidents and in sports are addressed. The interdisciplinary approach necessary in trauma biomechanics is stressed by showing the span from anatomy for each body region to engineering solutions for protection against injury. Injury tolerance values are listed, either currently in use or proposed by both the U.S. and European countries. Although the book is meant as a first introduction for engineers and medical doctors, sufficient references for scientific research are provided also. This third edition is revised and enlarged. In particular the unique introduction to Sport injuries is improved. In addition, many examples are included into the new edition.

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