



Lumbar Injury Biomechanics (Paperback)

By Jeffrey A. Pike

SAE International, United States, 2013. Paperback. Condition: New. Language: English . Brand New Book. The amount of load that can be borne by the different components of the lumbar region is fairly well understood, as are resulting injuries from overloading. Less severe lumbar injuries involve a wide range of factors, including: heredity, obesity, age, occupation, sports, cardiovascular risk factors, and depression. Some of the most painful conditions that require high levels of care involve lumbar spine fracture or soft tissue injury from falls, contact sports, vehicle collisions, aircraft ejection, and underbody blasts from roadway explosions (military injuries). Each of these injury scenarios elicits a different kinematic response of the spine as a result of load direction, magnitude, and duration. Updated from a popular earlier volume, this new compendium includes landmark papers from 1994 through 2013 that focus exclusively on lumbar injuries. It also features an introductory chapter, Blunt Lumbar Trauma that provides an overview of the anatomy of the lumbar region, injury, and injury mechanisms, as well as an extensive literature update. This edition is the third in a series of biomechanics compendia edited by Mr. Pike. Earlier editions covered injuries of the neck and head. For this volume, Mr....



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