



Biomechanics of the Brain (Biological and Medical Physics, Biomedical Engineering)

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Biomechanics of the Brain will present an introduction to brain anatomy for engineers and scientists. Experimental techniques such as brain imaging and brain tissue mechanical property measurement will be discussed, as well as computational methods for neuroimage analysis and modeling of brain deformations due to impacts and neurosurgical interventions. Brain trauma between the different sexes will be analyzed. Applications will include prevention and diagnosis of traumatic injuries, such as shaken baby syndrome, neurosurgical simulation and neurosurgical guidance, as well as brain structural disease modeling for diagnosis and prognosis.

This book will be the first book on brain biomechanics. It will provide a comprehensive source of information on this important field for students, researchers, and medical professionals in the fields of computer-aided neurosurgery, head injury, and basic biomechanics.

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