

1. Record Nr.	UNINA990009759360403321
Autore	Lindfield, George R.
Titolo	Numerical methods : using MATLAB / G.R. Lindfield, J.E.T. Penny
Pubbl/distr/stampa	Waltham, MA : Academic Press, 2012
ISBN	978-0-12-386942-5
Edizione	[3rd ed.]
Descrizione fisica	xviii, 534 p. : ill. ; 24 cm
Altri autori (Persone)	Penny, John E. T.
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Collocazione	VI E 1017
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr.	UNINA9910299929503321
Autore	King Albert I
Titolo	The Biomechanics of Impact Injury : Biomechanical Response, Mechanisms of Injury, Human Tolerance and Simulation // by Albert I. King
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-49792-8
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (LVI, 662 p. 526 illus., 249 illus. in color.)
Disciplina	612.01441
Soggetti	Biomedical engineering Biophysics Orthopedics Biomedical Engineering and Bioengineering Biological and Medical Physics, Biophysics Conservative Orthopedics
Lingua di pubblicazione	Inglese
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Note generali	Includes index.
Nota di contenuto	Chapter1. Introduction -- Chapter2. Basics of the Biomechanics of Brain Injury -- Chapter3. Basics of the Biomechanics of Brain Injury -- Chapter4. Basics of the Biomechanics of Brain Injury -- Chapter5. Basics of the Biomechanics of Brain Injury -- Chapter6. Basics of the Biomechanics of Brain Injury -- Chapter7. Basics of the Biomechanics of Brain Injury -- Chapter8. Basics of the Biomechanics of Brain Injury -- Chapter9. Basics of the Biomechanics of Brain Injury -- Chapter10. Biomechanics of Facet Loading on the Lumbar Spine -- Chapter11. Biomechanics of Facet Loading on the Lumbar Spine -- Chapter12. Impact Biomechanics of the Abdomen -- Chapter13. Impact Biomechanics of the Abdomen -- Chapter14. Impact Biomechanics of the Lower Extremities -- Chapter15. Impact Biomechanics of the Foot -- Chapter16. Side Impact -- Chapter17. Side Impact -- Chapter18. Biomechanics of Automotive Safety Restraints -- Chapter19. Biomechanics of Sports Injuries -- Chapter20. Epilog.
Sommario/riassunto	This text acquaints the reader on the biomechanics of injury to the

human body caused by impact and the use of computer models to simulate impact events. It provides a basic understanding of the biomechanics of the injuries resulting from the impact to the head, neck, chest, abdomen, spine, pelvis and the lower extremities, including the foot and ankle. Other topics include side impact, car-pedestrian impact, effectiveness of automotive restraint systems and sports-related injuries. Featuring problems and PowerPoint slides for lectures, the volume is ideal for students in graduate programs in biomechanics, as well as practicing engineers, and researchers in the life sciences concerned with orthopedics. .

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