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# Human-Like Biomechanics: A Unified Mathematical Approach to Human Biomechanics and Humanoid Robotics (Intelligent Systems, Control and Automation: Science and Engineering)

*Vladimir G. Ivancevic, Tijana T. Ivancevic*

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**Human-Like Biomechanics** is a comprehensive introduction into modern geometrical methods to be used as a unified research approach in two apparently separate and rapidly growing fields: mathematical biomechanics and humanoid robotics.

The book contains six Chapters and an Appendix. The first Chapter is an Introduction, giving a brief review of mathematical techniques to be used in the text. The second Chapter develops geometrical basis of human-like biomechanics, while the third Chapter develops its mechanical basis, mainly from generalized Lagrangian and Hamiltonian perspective. The fourth Chapter develops topology of human-like biomechanics, while the fifth Chapter reviews related nonlinear control techniques. The sixth Chapter develops covariant biophysics of electro-muscular stimulation. The Appendix consists of two parts: classical muscular mechanics and modern path integral methods, which are both used frequently in the main text. The whole book is based on the authors' own research papers in human-like biomechanics.

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