



Sports Biomechanics: The basics: Optimizing Human Performance

By Anthony J. Blazeovich

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For coaches, athletes and students of biomechanics, Sports Biomechanics: the basics answers real-world questions in sports using easily comprehensible language and clear and concise diagrams. Each chapter is devoted to answering questions in a single area of sports biomechanics with the scientific underpinnings of sports performance clearly explained. Biomechanics is simply the science of 'mechanics', a particular section of physics, as it relates to the human body. In the sport sciences, biomechanists do just about everything, including improving aerodynamics of vehicles, improving swim stroke technique to maximize swimming propulsion, and optimizing running technique to increase running speed or efficiency. It is a core subject on all sports science courses, and undergraduates must complete this module in their first (and often second) year. Because of the use of math and physics to explain biomechanical concepts, students often find it difficult to grasp the basic elements of biomechanics. Anthony Blazeovich's book is designed to explain to students the key concepts of biomechanics, using clear examples, tying all theory to practical examples to help students relate the biomechanics principles to improving in their coaching and performing.

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Editorial Review

Review

"For anyone interested in the biomechanics and natural movement of human beings, this book is nothing short of a bible...Ditches the unnecessary scientific jargon used by many of its rivals and instead adopts a simple yet comprehensive tone to answer all the sporting questions that you've always wanted to know...Takes you through all aspects of sports biomechanics such as projectile motion, fluid dynamics and hydrodynamics...Graphs and images assist understanding along the way."—*Women's Fitness*

About the Author

Anthony J. Blazeovich has written many books on sports medicine.

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