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Altri autori (Persone)	ZatsiorskyVladimir M <1932-> (Vladimir Mikhailovich)
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Nota di contenuto

BIOMECHANICS IN SPORT; Contents; List of Contributors; Forewords; Preface; Part 1: Muscle Action in Sport and Exercise; 1 Neural Contributions to Changes in Muscle Strength; 2 Mechanical Properties and Performance in Skeletal Muscles; 3 Muscle-Tendon Architecture and Athletic Performance; 4 Eccentric Muscle Action in Sport and Exercise; 5 Stretch -Shortening Cycle of Muscle Function; 6 Biomechanical Foundations of Strength and Power Training; Part 2: Locomotion; 7 Factors Affecting Preferred Rates of Movement in Cyclic Activities; 8 The Dynamics of Running; 9 Resistive Forces in Swimming, 10 Propulsive Forces in Swimming; 11 Performance-Determining Factors in Speed Skating; 12 Cross-Country Skiing: Technique, Equipment and Environmental Factors Affecting Performance; Part 3: Jumping and Aerial Movement; 13 Aerial Movement; 14 The High Jump; 15 Jumping in Figure Skating; 16 Springboard and Platform Diving; 17 Determinants of Successful Ski-Jumping Performance; Part 4: Throwing and Hitting; 18 Principles of Throwing; 19 The Flight of Sports Projectiles; 20 Javelin Throwing: an Approach to Performance Development; 21 Shot Putting; 22 Hammer Throwing: Problems and Prospects; 23 Hitting and Kicking; Part 5: Injury Prevention and Rehabilitation; 24 Mechanisms of Musculoskeletal Injury; 25 Musculoskeletal Loading During Landing; 26 Sport-Related Spinal Injuries and Their Prevention; 27 Impact Propagation and its Effects on the Human Body; 28 Neuromechanics of the Initial Phase of Eccentric Contraction-Induced Muscle Injury; Part 6: Special Olympic Sports; 29 Manual Wheelchair Propulsion; 30 Sports after Amputation; Index

Sommario/riassunto

Biomechanics in Sport is a unique reference text prepared by the leading world experts in sport biomechanics. Over thirty chapters cover a broad spectrum of topics, ranging from muscle mechanics to injury prevention, and from aerial movement to wheelchair sport. The biomechanics of sports including running, skating, skiing, swimming, jumping in athletics, figure skating, ski jumping, diving, javelin and hammer throwing, shot putting, and striking movements are all explained.