
Part 5: Injury Prevention and Rehabilitation addresses the problems that are pertinent to many sports; and finally Part 6: Special Olympic Sports discusses the biomechanics of wheelchair sports and sport for amputees. The biomechanics of many sports including, but not limited to, running, skating, skiing, swimming, jumping in athletics, figure skating, ski jumping, diving, javelin and hammer throwing, shot putting, and striking movements are all explained. Edited by a leading world authority, Volume IX in the acclaimed Encyclopaedia of Sports Medicine, Biomechanics in Sport is a unique reference containing the contributions of some 37 prominent world experts in their particular research or applied field. Thirty chapters, divided into six parts, cover a broad spectrum of topics 1 online resource (xii, 667 pages) : 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. Includes bibliographical references and index. Save my selection. Book Reviews. Biomechanics in Sport: Performance Enhancement and Injury Prevention. Marsh, Anthony P. Ph.D. Author Information. (Wake Forest University). The 6 parts are: muscle action in sports and exercise, locomotion, jumping and aerial movement, throwing and hitting, injury prevention and rehabilitation, special Olympic sports. The text gives individuals interested in the biomechanics of sports fundamental information on biomechanical principles of athletic movement and specific information on over a dozen Olympic events. The illustrations are outstanding and include original line drawings and reproductions from exemplar scientific work. All chapters are followed by a complete reference list and the volume is indexed across chapters.