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CHAPTER 2 Efficiency of movement — biomechanics

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Abstract. In this chapter we move beyond the basic principles of biomechanics and cover various special topics. We continue our trip into the understanding of the anatomical and mechanical principles and take a closer look at analyzing the various forms of human movement through various examples and problems from biomechanics research.

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In this chapter, human movement terminology is introduced, and the problem-solving approach is adapted to provide a template for qualitative solving of human movement analysis problems. Most human movement is general motion, a complex combination of linear and angular motion components.

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