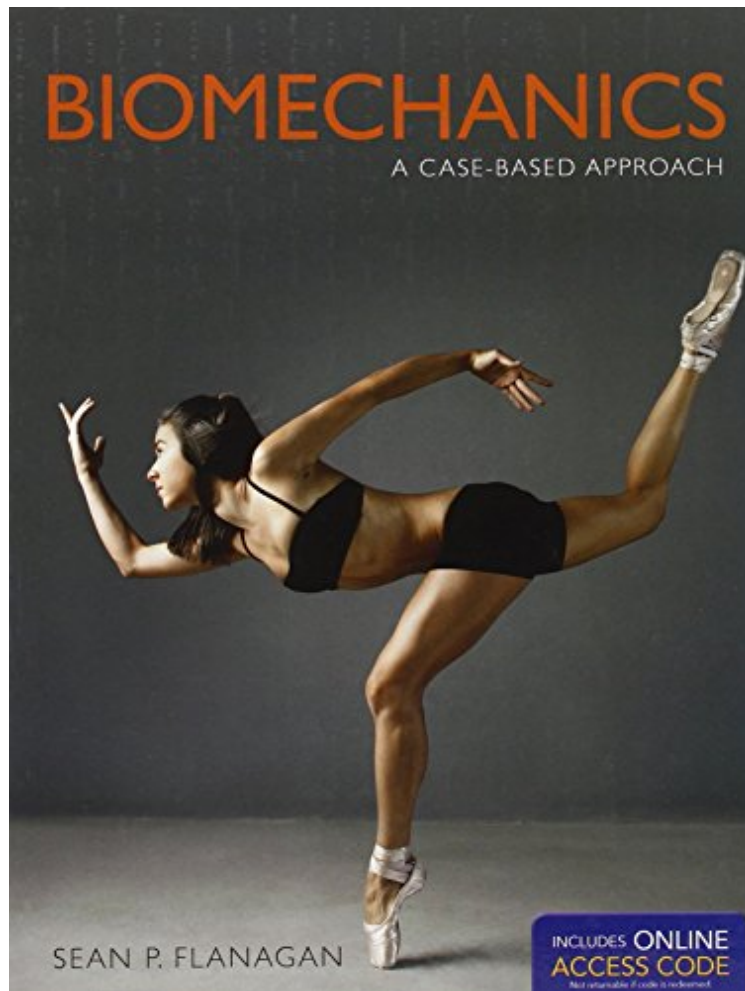


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Biomechanics: A Case-Based Approach

Sean P. Flanagan

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Biomechanics: A Case-Based Approach focuses on the comprehension, retention, and application of the core concepts of biomechanics using problem-based learning strategies. The book features a broad range of case studies and examples to illustrate key content throughout the text. Relevant and realistic problems provide students with the

opportunity to associate what they're learning in class to real-life applications in the field. *Biomechanics: A Case-Based Approach*, offers a unique approach to understanding biomechanical concepts through the use of mathematical problems. The conversational writing style engages students' attention while not sacrificing the rigor of the content. Case studies and real-world examples illustrate key content areas while competency checks, located at the conclusion of each major section, correspond to the first three areas of Bloom's Taxonomy: remember, understand, and apply. *Biomechanics: A Case-Based Approach* employs the technique of guided discovery to ensure that all students understand the concepts of biomechanics. To accommodate a variety of student learning styles, content is presented physically, graphically, and mathematically. Key features: Learning Objectives found at the beginning of each chapter address the objectives of each lesson. Definitions presented in the margins of the text help define new words each time they appear. Important Points provide summaries in the margin throughout the text. Essential Math boxes provide a review of essential math before it is presented in the text. Applied Research helps to illustrate biomechanical concepts. Competency Checks found at the conclusion of major sections ask conceptual and quantitative questions to foster critical thinking and further student comprehension. End of Chapter Pedagogy includes: Chapter Summary and Conclusion, Review Questions, and a list of Chapter References.