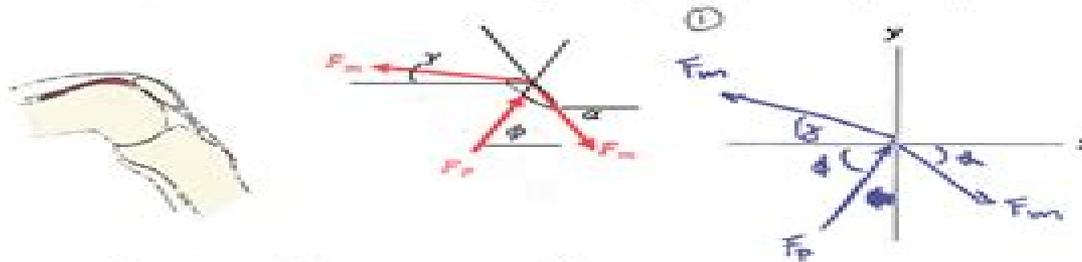


**Problem 1:**

As discussed in class, the patella helps to provide an additional moment arm to the quadriceps muscle to reduce the force necessary to extend the knee. Noting that the patella acts like a pulley, we can see that the muscle tension helps push the patella against the distal condyle of the femur. Using the knee diagrams below, complete the following:

1. Draw a FBD on the  $xy$ -axes assuming that the patellar compressive and muscle forces all intersect at the origin.
2. Write a set of force and moment balance equations describing the joint
3. Find expressions for the patellar contact angle,  $\phi$ , and the patellar force  $F_p$ , as functions of muscle force magnitude and direction ( $F_m, \gamma, \alpha$ ).
4. How do you expect the patellar force to be different during a deep squat (high knee flexion angle) compared to standing? Justify your answer using the equations developed in (3).



②  $\sum F_x = 0: -F_m \cos \gamma + F_p \cos \phi + F_m \cos \alpha = 0$

$$F_p = \frac{F_m (\cos \gamma - \cos \alpha)}{\cos \phi}$$

$\sum F_y = 0: F_m \sin \gamma + F_p \sin \phi - F_m \sin \alpha = 0$

$\sum M = 0$

③ From  $\sum F_y \rightarrow \sin \phi = \frac{F_m (\sin \alpha - \sin \gamma)}{F_p} = \frac{\cos \phi (\sin \alpha - \sin \gamma)}{\cos \gamma - \cos \alpha}$

$\tan \phi = \frac{\sin \alpha - \sin \gamma}{\cos \gamma - \cos \alpha}$

$$\phi = \tan^{-1} \left[ \frac{\sin \alpha - \sin \gamma}{\cos \gamma - \cos \alpha} \right]$$

④ At High Flexion:  $\alpha$  increases,  $\gamma$  is constant, small }  $F_p \approx \frac{1 - \cos \alpha}{\cos \phi} \rightarrow F_p \dots$   
 $\alpha \rightarrow 90^\circ \dots \rightarrow 45^\circ$  }  $\rightarrow$  increases, constant  $F_m$ ,  $F_p \approx 2 \cos \phi$

# Biomechanics Sample Problems And Solutions

**Albert A Gayle**



## **Biomechanics Sample Problems And Solutions:**

Biomechanics Sample Problems And Solutions: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have charmed audiences this year. Biomechanics Sample Problems And Solutions : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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**Table of Contents Biomechanics Sample Problems And Solutions**

1. Understanding the eBook Biomechanics Sample Problems And Solutions
  - The Rise of Digital Reading Biomechanics Sample Problems And Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Biomechanics Sample Problems And Solutions
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Biomechanics Sample Problems And Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Biomechanics Sample Problems And Solutions
  - Personalized Recommendations
  - Biomechanics Sample Problems And Solutions User Reviews and Ratings
  - Biomechanics Sample Problems And Solutions and Bestseller Lists
5. Accessing Biomechanics Sample Problems And Solutions Free and Paid eBooks
  - Biomechanics Sample Problems And Solutions Public Domain eBooks
  - Biomechanics Sample Problems And Solutions eBook Subscription Services
  - Biomechanics Sample Problems And Solutions Budget-Friendly Options
6. Navigating Biomechanics Sample Problems And Solutions eBook Formats
  - ePub, PDF, MOBI, and More
  - Biomechanics Sample Problems And Solutions Compatibility with Devices
  - Biomechanics Sample Problems And Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Biomechanics Sample Problems And Solutions
  - Highlighting and Note-Taking Biomechanics Sample Problems And Solutions
  - Interactive Elements Biomechanics Sample Problems And Solutions
8. Staying Engaged with Biomechanics Sample Problems And Solutions

- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Biomechanics Sample Problems And Solutions
9. Balancing eBooks and Physical Books Biomechanics Sample Problems And Solutions
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Biomechanics Sample Problems And Solutions
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Biomechanics Sample Problems And Solutions
    - Setting Reading Goals Biomechanics Sample Problems And Solutions
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Biomechanics Sample Problems And Solutions
    - Fact-Checking eBook Content of Biomechanics Sample Problems And Solutions
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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