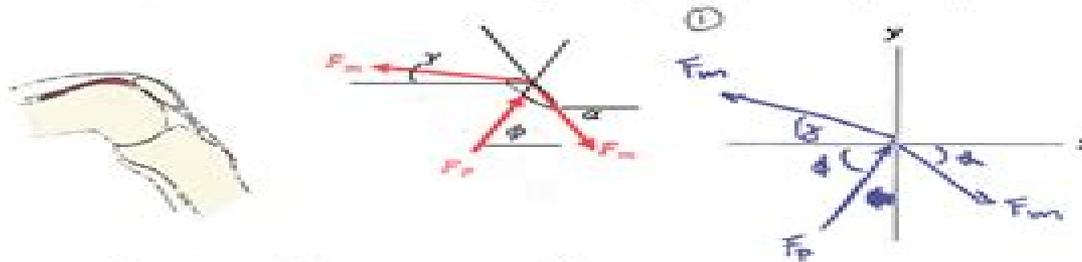


Problem 1:

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, ϕ , and the patellar force F_p , as functions of muscle force magnitude and direction (F_m, γ, α).
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).



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

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

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

$$\sum M = 0$$

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

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

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

$\textcircled{4}$ AT HIGH FLEXION: α INCREASES } $F_p \approx \frac{1 - \cos \alpha}{\cos \phi} \rightarrow F_p \dots$
 $\gamma \approx \text{CONST, SMALL}$ } $F_m \cos \phi$ } INCREASES
 $\rightarrow \alpha \rightarrow 90^\circ \dots \rightarrow 45^\circ$ } $F_m \cos \phi$ } DECREASES

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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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