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•2-61. Express each force acting on the pipe assembly in Cartesian vector form.



Rectangular Components: Since $\cos^2 \alpha_1 + \cos^2 \beta_1 + \cos^2 \gamma_1 = 1$, then $\cos \beta_1 = \sqrt{1 - \cos^2 60^\circ - \cos^2 120^\circ} = 0.7071$.

However, it is required that $\beta_1 > 90^\circ$, then, $\beta_1 = \cos^{-1}(-0.7071) = 135^\circ$. By resolving F_1 and F_2 into their x , y , and z components, as shown in Figs. a and b, respectively, F_1 and F_2 can be expressed in Cartesian vector form, as

$$F_1 = 600 \left(\frac{-1}{\sqrt{2}} \right) \mathbf{i} + 0 \mathbf{j} + 600 \left(\frac{1}{\sqrt{2}} \right) \mathbf{k}$$

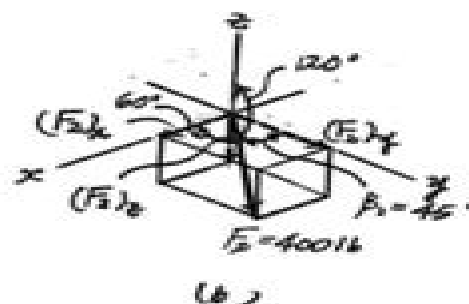
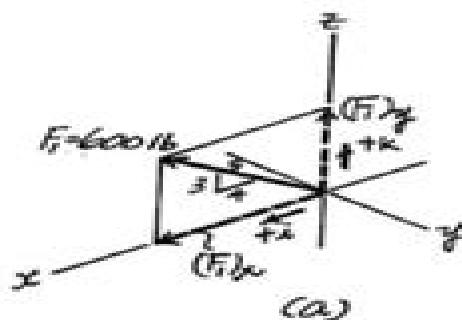
$$= \{-424\mathbf{i} + 424\mathbf{k}\} \text{ lb}$$

Ans.

$$F_2 = 400 \cos 60^\circ \mathbf{i} + 400 \cos 45^\circ \mathbf{j} + 400 \cos 120^\circ \mathbf{k}$$

$$= \{200\mathbf{i} + 283\mathbf{j} - 200\mathbf{k}\} \text{ lb}$$

Ans.



Hibbler Statics 12th Edition Solution Manual

S Ashworth



Hibbler Statics 12th Edition Solution Manual:

Hibbler Statics 12th Edition Solution Manual: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Let's delve into the realm of popular books, exploring the captivating narratives that have charmed audiences this year.

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Hibbler Statics 12th Edition Solution Manual : 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' absorbing 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 mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting.

These bestselling 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 compelling stories waiting to be discovered.

The novel begins with Richard Pappen, 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 masterful and thrilling novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

<https://staging.conocer.cide.edu/data/Resources/Documents/fuse%20box%20diagram%20for%20quantum%202%207%20petrol.pdf>

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