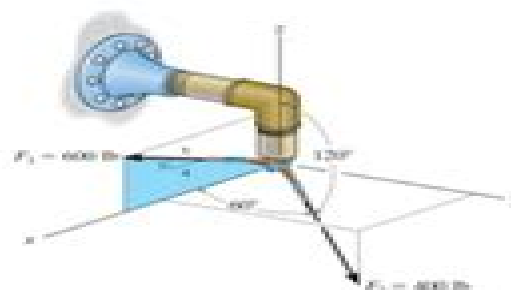


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•2-61. Express each force acting on the pipe assembly in Cartesian vector form.



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

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

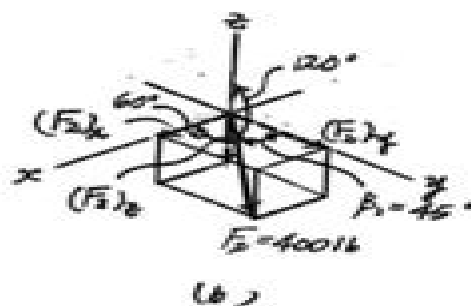
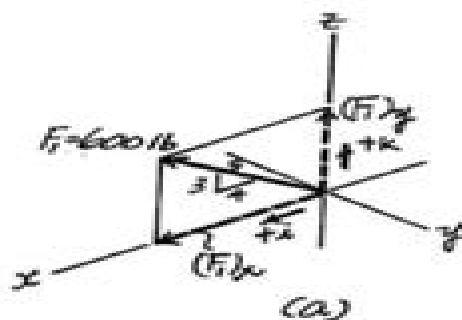
$$= \{-424\mathbf{i} + 424\mathbf{k}\} \text{ N}$$

Ans.

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

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

Ans.



Engineering Mechanics Statics 12th Solution Manual

R. C. Hibbeler



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EBOOK: Vector Mechanics for Engineers: Statics (SI units) Ferdinand Beer, E. Johnston, David Mazurek, 2012-10-16
Target Audience This text is designed for the first course in Statics offered in the sophomore year Overview The main objective of a first course in mechanics should be to develop in the engineering student the ability to analyze any problem in a simple and logical manner and to apply to its solution a few well understood basic principles This text is designed to help the instructor achieve this goal Vector analysis is introduced early in the text and is used in the presentation and discussion of the fundamental principles of mechanics Vector methods are also used to solve many problems particularly three dimensional problems where these techniques result in a simpler and more concise solution The emphasis in this text however remains on the correct understanding of the principles of mechanics and on their application to the solution of engineering problems and vector analysis is presented chiefly as a convenient tool In order to achieve the goal of being able to analyze mechanics problems the text employs the following pedagogical strategy Practical applications are introduced early New concepts are introduced simply Fundamental principles are placed in simple contexts Students are given extensive practice through sample problems special sections entitled Solving Problems on Your Own extensive homework problem sets review problems at the end of each chapter and computer problems designed to be solved with computational software Resources Supporting This Textbook Instructor's and Solutions Manual features typeset one per page solutions to the end of chapter problems It also features a number of tables designed to assist instructors in creating a schedule of assignments for their course The various topics covered in the text have been listed in Table I and a suggested number of periods to be spent on each topic has been indicated Table II prepares a brief description of all groups of problems Sample lesson schedules are

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Srinivasa, 2025-08-29 The third edition of Mechanics of Solids and Structures makes use of computational methods such as the finite element method that has revolutionized the field to solve problems while retaining all the basic principles and

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