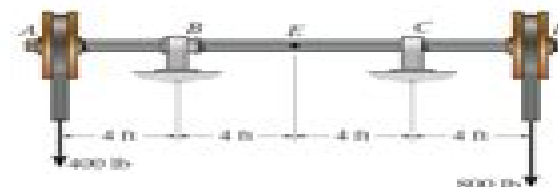


1-1.

The shaft is supported by a smooth thrust bearing at  $B$  and a journal bearing at  $C$ . Determine the resultant internal loadings acting on the cross section at  $E$ .



## SOLUTION

**Support Reactions:** We will only need to compute  $C_y$  by writing the moment equation of equilibrium about  $B$  with reference to the free-body diagram of the entire shaft, Fig.  $a$ .

$$C_y + \sum M_B = 0; \quad C_y(8) + 400(4) - 800(12) = 0 \quad C_y = 1000 \text{ lb}$$

**Internal Loadings:** Using the result for  $C_y$ , section  $DE$  of the shaft will be considered. Referring to the free-body diagram, Fig.  $b$ ,

$$+\circlearrowleft \sum F_x = 0; \quad N_E = 0$$

Ans.

$$+\uparrow \sum F_y = 0; \quad V_E + 1000 - 800 = 0 \quad V_E = -200 \text{ lb}$$

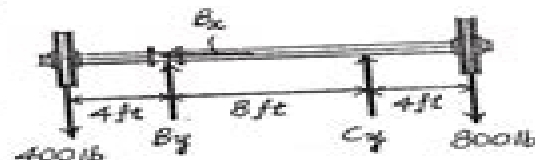
Ans.

$$C_y + \sum M_E = 0; 1000(4) - 800(8) - M_E = 0$$

$$M_E = -2400 \text{ lb} \cdot \text{ft} = -2.40 \text{ kip} \cdot \text{ft}$$

Ans.

The negative signs indicates that  $V_E$  and  $M_E$  act in the opposite sense to that shown on the free-body diagram.



(a)



(b)

Ans.

$$N_E = 0, V_E = -200 \text{ lb}, M_E = -2.40 \text{ kip} \cdot \text{ft}$$

# Mechanics Of Materials Solutions Chapter 1

**E Durkheim**



## **Mechanics Of Materials Solutions Chapter 1:**

**Solutions Manual : Mechanics of Materials** R. C. Hibbeler, 1991      Mechanics of Materials James Monroe Gere, Stephen Timoshenko, 1997-01-01      Solution Manual to Statics and Mechanics of Materials an Integrated Approach (Second Edition) , This book is the solution manual to Statics and Mechanics of Materials an Integrated Approach Second Edition which is written by below persons William F Riley Leroy D Sturges Don H Morris      Mechanical Materials Russell C. Hibbeler, 1994-10-01      Mechanics of Materials George Young (jr.), Hubert Eugene Baxter, 1927      **Solutions Manual for Mechanics of Materials** Stephen Timoshenko, 1984      **Solutions Manual for Mechanics of Materials** James M. Gere, Stephen P. Timoshenko, 1987      Elasticity of Materials Ezgi Günay, 2019-01-30 In the science of physics elasticity is the ability of a deformable body e g steel aluminum rubber wood crystals etc to resist a distorting effect and to return to its original size and shape when that influence or force is removed Solid bodies will deform when satisfying forces are applied to them Elasticity solution of materials will be grouped in forms of linear and nonlinear elasticity formulations The main subject of this book is engineering elasticity and consists of five chapters in two main sections These two main sections are General Theorems in Elasticity and Engineering Applications in Theory of Elasticity The first chapter of the first section belongs to the editor and is entitled Analytical and Numerical Approaches in Engineering Elasticity The second chapter in the first section is entitled A General Overview of Stress Strain Analysis for the Elasticity Equations by P Kumar M Mahanty and A Chattopadhyay The first chapter of the second section is entitled FEA and Experimental Determination of Applied Elasticity Problems for Fabricating Aspheric Surfaces by Dr D N Nguyen The second chapter is entitled Concept of Phase Transition Based on Elastic Systematics by Dr P S Nnamchi and Dr C S Obayi The third chapter is entitled Repair Inspection Technique Based on Elastic Wave Tomography Applied for Deteriorated Concrete Structures by Dr K Hashimoto Dr T Shiotani Dr T Nishida and Dr N Okude Finally this book includes the basic principles of elasticity and related engineering applications about theory and design      Schaum's Outline of Strength of Materials, 6ed William Nash, 2013-11-08 Tough Test Questions Missed Lectures Not Enough Time Fortunately there s Schaum s This all in one package includes more than 600 fully solved problems examples and practice exercises to sharpen your problem solving skills Plus you will have access to 22 detailed videos featuring instructors who explain the most commonly tested problems it s just like having your own virtual tutor You ll find everything you need to build confidence skills and knowledge for the highest score possible More than 40 million students have trusted Schaum s to help them succeed in the classroom and on exams Schaum s is the key to faster learning and higher grades in every subject Each Outline presents all the essential course information in an easy to follow topic by topic format You also get hundreds of examples solved problems and practice exercises to test your skills This Schaum s Outline gives you 618 fully solved problems Extra practice on topics such as determinate force systems torsion cantilever beams and more Support for all the major textbooks for strength of materials courses Fully compatible with your classroom

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