

Problem #1

Determine the forces in the members of the roof truss shown.

Figure:



Reqd: F_{AB}
 F_{BC}
 F_{BD}
 F_{AC}
 F_{CD}

Solution w/ FBD:

Joint C



$$\sum F_V = 0$$

$$0 = -100 + F_{BC}$$

$$F_{BC} = 100 \text{ kN (1)}$$

$$\sum F_H = 0$$

$$0 = F_{BD} - F_{AC} \quad (2)$$

Joint A



$$\sum F_H = 0$$

$$0 = F_{AC} - F_{AB} \cos 30$$

$$F_{AC} = 100 \cos 30$$

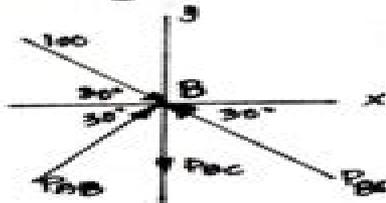
$$F_{AC} = 50\sqrt{3} \text{ kN (3)}$$

$$\sum F_V = 0$$

$$0 = R_A - F_{AB} \sin 30$$

$$R_A = 50 \text{ kN}$$

Joint B



$$\sum F_V = 0$$

$$0 = F_{BD} \sin 30 + F_{AB} \sin 30 - 100 \sin 30 - 100$$

$$F_{BD} + F_{AB} = 200 \text{ (4)}$$

$$\sum F_H = 0$$

$$0 = F_{AB} \cos 30 - F_{BD} \cos 30 + 100 \cos 30$$

$$-F_{AB} + F_{BD} = 100 \quad (5)$$

$$F_{AB} = F_{BD} - 100$$

Eq. (1)

$$F_{CD} = F_{AC}$$

$$F_{CD} = 50\sqrt{3} \text{ kN (6)}$$

Eq. 2 & (3)

$$F_{BD} + (F_{BD} - 100) = 200 \text{ (4)}$$

$$2F_{BD} = 200 \text{ (4)} + 100$$

$$2F_{BD} = 300$$

$$F_{BD} = 150 \text{ kN (c)}$$

$$F_{AB} = 150 - 100$$

$$F_{AB} = 50 \text{ kN (c)}$$

Engineering Mechanics Statics Problems And Solutions

Sayavur I. Bakhtiyarov



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Dynamics for Engineers Bichara B. Muvdi, Amir W. Al-Khafaji, John W. McNabb, 1997-06-26 Mechanics is one of the branches of physics in which the

number of principles is at once very few and very rich in useful consequences On the other hand there are few sciences which have required so much thought the conquest of a few axioms has taken more than 2000 years Rene Dugas A History of Mechanics Introductory courses in engineering mechanics statics and dynamics are generally found very early in engineering curricula As such they should provide the student with a thorough background in the basic fundamentals that form the foundation for subsequent work in engineering analysis and design Consequently our primary goal in writing Statics for Engineers and Dynamics for Engineers has been to develop the fundamental principles of engineering mechanics in a manner that the student can readily comprehend With this comprehension the student thus acquires the tools that would enable him/her to think through the solution of many types of engineering problems using logic and sound judgment based upon fundamental principles Approach We have made every effort to present the material in a concise but clear manner Each subject is presented in one or more sections followed by one or more examples the solutions for which are presented in a detailed fashion with frequent reference to the basic underlying principles A set of problems is provided for use in homework assignments

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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

Engineering Mechanics R. C. Hibbeler, 2010 Companion CD contains 8 animations covering fundamental engineering mechanics concept

Solving Practical Engineering Mechanics Problems Sayavur I. Bakhtiyarov, 2022-05-31 Engineering mechanics is one of the fundamental branches of science that is important in the education of professional engineers of any major Most of the basic engineering courses such as mechanics of materials fluid and gas mechanics machine design mechatronics acoustics vibrations etc are based on engineering mechanics courses In order to absorb the materials of engineering mechanics it is not enough to consume just theoretical laws and theorems a student also must develop an ability to solve practical problems Therefore it is necessary to solve many problems independently This book is a part of a four book series designed to supplement the engineering mechanics courses This series instructs and applies the principles required to solve practical engineering problems in the following branches of mechanics statics kinematics dynamics and advanced kinetics Each book contains between 6 and 8 topics on its specific branch and each topic features 30 problems to be assigned as homework tests and or midterm final exams with the consent of the instructor A solution of one similar sample problem from each topic is provided This first book

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