

ENGINEERING MECHANICS PROBLEM

The following forces act on a point:-

1. 200 kg inclined at 20 degrees towards north of East
2. 25 kg towards north
3. 300 kg inclined at 40 degrees towards north of west
4. 350 kg inclined 40 degrees towards south of west.

Calculate the
Resultant force.

RESULTANT FORCE

$$\text{Resultant force } F_z = \sqrt{(F_x)^2 + (F_y)^2 + 2F_x F_y \cos 90^\circ}$$

$$F_x = 200 \cos 20^\circ + 250 \cos 90^\circ + 300 \cos 140^\circ + 350 \cos 220^\circ$$
$$= -324.7 \text{ N}$$

$$F_y = 200 \sin 20^\circ + 250 \sin 90^\circ + 300 \sin 140^\circ + 350 \sin 220^\circ$$



$$F = 454.4 \text{ N}$$

Engineering Mechanics Solved Problems

Exp. Teachers



Engineering Mechanics Solved Problems:

Problems and Solutions in Engineering Mechanics S. S. Bhavikatti, A. Vittal Hegde, 2009-05-30 Each chapter begins with a quick discussion of the basic concepts and principles It then provides several well developed solved examples which illustrate the various dimensions of the concept under discussion A set of practice problems is also included to encourage the student to test his mastery over the subject The book would serve as an excellent text for both Degree and Diploma students of all engineering disciplines AMIE candidates would also find it most useful *Solving Practical Engineering Mechanics Problems* Sayavur I. Bakhtiyarov, 2022-05-31 Engineering Mechanics is one of the fundamental branches of science which 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 course In order to absorb the materials of Engineering Mechanics it is not enough to consume just theoretical laws and theorems 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 in the principles required to solve practical engineering problems in the following branches of mechanics Statics Kinematics Dynamics and Advanced Kinetics Each book contains 6 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 second book in the series contains six topics of Kinematics the branch of mechanics that is concerned with the analysis of motion of both particle and rigid bodies without reference to the cause of the motion This book targets undergraduate students at the sophomore junior level majoring in science and engineering **Solving Practical Engineering Mechanics Problems** Sayavur I. Bakhtiyarov, 2017-10-16 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 contains seven topics of statics the branch of mechanics concerned with the analysis of forces acting on construction systems without an acceleration a state of the static equilibrium The book targets the undergraduate

students of the sophomore junior level majoring in science and engineering

Solving Practical Engineering Problems in Engineering Mechanics 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 an Engineering Mechanics course. 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 in the principles required to solve practical engineering problems in the following branches of mechanics: Statics, Kinematics, Dynamics, and Advanced Kinetics. Each book contains 6-8 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 third book in the series contains seven topics on Dynamics, the branch of mechanics that is concerned with the relation existing between the forces acting on the objects and the motion of these objects. This book targets undergraduate students at the sophomore/junior level majoring in science and engineering.

Engineering Mechanics D. P. Sharma, Sharma D. P., 2010 This book is tailor-made as per the syllabus of Engineering Mechanics offered in the first year of undergraduate students of Engineering. The book covers both Statics and Dynamics and provides the students with a clear and thorough presentation of the theory as well as the applications. The diagrams and problems in the book familiarize students with actual situations encountered in engineering.

A Textbook of Engineering Mechanics R.K. Bansal, 2005-12

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Statics -

Formulas and Problems Dietmar Gross,Wolfgang Ehlers,Peter Wriggers,Jörg Schröder,Ralf Müller,2016-11-25 This book contains the most important formulas and more than 160 completely solved problems from Statics It provides engineering students material to improve their skills and helps to gain experience in solving engineering problems Particular emphasis is placed on finding the solution path and formulating the basic equations Topics include Equilibrium Center of Gravity Center of Mass Centroids Support Reactions Trusses Beams Frames Arches Cables Work and Potential Energy Static and Kinetic Friction Moments of Inertia

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Mechanics of Materials - Formulas and Problems Dietmar Gross,Wolfgang Ehlers,Peter Wriggers,Jörg Schröder,Ralf Müller,2016-11-25 This book contains the most important formulas and more than 140 completely solved problems from Mechanics of Materials and Hydrostatics It provides engineering students material to improve their skills and helps to gain experience in solving engineering problems Particular emphasis is placed on finding the solution path and formulating the basic equations Topics include Stress Strain Hooke s Law Tension and Compression in Bars Bending of Beams Torsion Energy Methods Buckling of Bars Hydrostatics

Engineering Mechanics Statics And Dynam S Rajasekaran,2009-11-01 Explains the fundamental concepts and principles underlying the subject illustrates the application of numerical methods to solve engineering problems with mathematical models and introduces students to the use of computer applications to solve problems A continuous step by step build up of the subject makes the book very student friendly All topics and sequentially coherent subtopics are carefully organized and explained distinctly within each chapter An abundance of solved examples is provided to illustrate all phases of the topic under consideration All chapters include

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Problems & Solutions in Engineering Mechanics Exp. Teachers,2004-02-01 **Engineering Mechanics** Arshad Noor Siddiquee,Zahid A. Khan,Pankul Goel,2018-05-03 This comprehensive and self contained textbook will help students in acquiring an understanding of fundamental concepts and applications of engineering mechanics With basic prior knowledge the readers are guided through important concepts of engineering mechanics such as free body diagrams principles of the transmissibility of forces Coulomb s law of friction analysis of forces in members of truss and rectilinear motion in horizontal direction Important theorems including Lami s theorem Varignon s theorem parallel axis theorem and perpendicular axis theorem are discussed in a step by step manner for better clarity Applications of ladder friction wedge friction screw friction and belt friction are discussed in detail The textbook is primarily written for undergraduate engineering students in India Numerous theoretical questions unsolved numerical problems and solved problems are included throughout the text to develop a clear understanding of the key principles of engineering mechanics This text is the ideal resource for first year engineering undergraduates taking an introductory single semester course in engineering mechanics

Engineering Mechanics Thomas Alexander Hunter,1961

700 Solved Problems in Vector Mechanics for Engineers Joseph F. Shelley,2000 **800 Solved Problems in Vector Mechanics for Engineers: Statics** Joseph F. Shelley,1990 Operations with forces Operations with moment and couples Fundamentals of force analysis Force analysis of plane frame and machines Analysis of friction forces

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