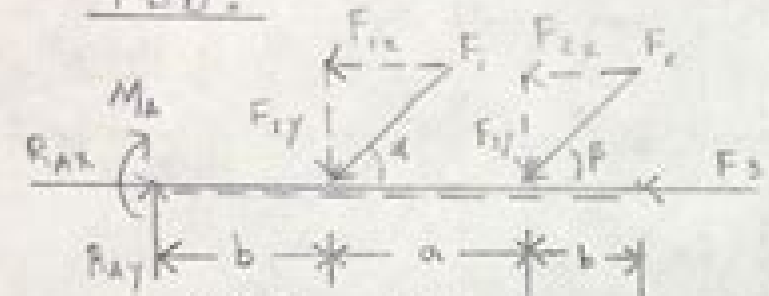


11.2 → 4.49.

FBD:



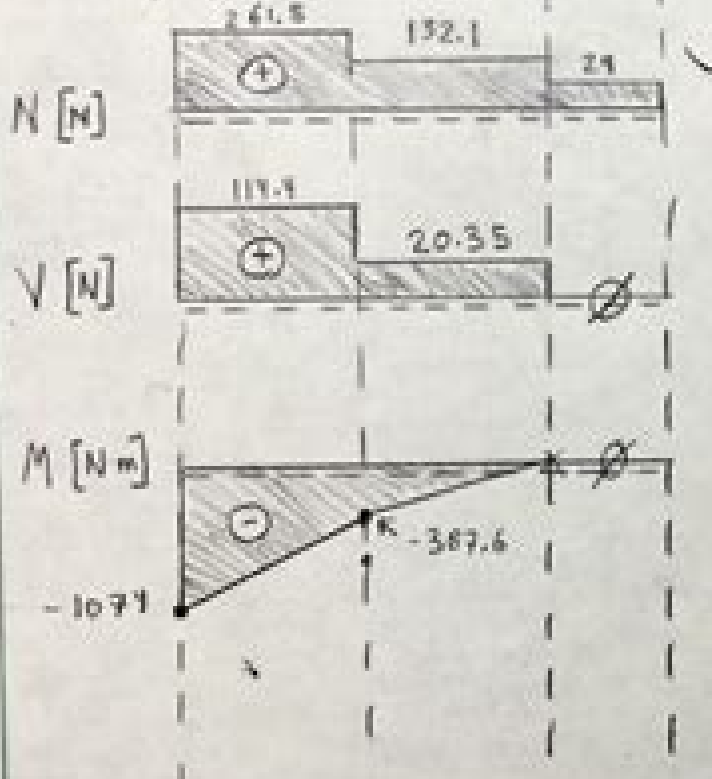
GIVENS	
a	15 m
b	4 m
F1	180 N
F2	110 N
F3	25 N
alpha	30°
beta	10.27°

$$F_{1x} = F_1 \cos(\alpha) = 129.4$$

$$F_{1y} = F_1 \sin(\alpha) = 94.05$$

$$F_{2x} = F_2 \cos(\beta) = 108.1$$

$$F_{2y} = F_2 \sin(\beta) = 20.37$$



$$\oplus \sum M_A = 0: 0 = M_A + F_{1y}(b) + F_{2y}(a+b)$$

$$\rightarrow M_A = -F_1 \sin(\alpha)(b) - F_2 \sin(\beta)(a+b)$$

$$\rightarrow \underline{M_A = 1073.6 \text{ [N.m] } \downarrow}$$

$$+\sum F_y = 0: 0 = R_{Ay} - F_{1y} - F_{2y} \rightarrow R_{Ay} = F_1 \sin(\alpha) + F_2 \sin(\beta)$$

$$\rightarrow \underline{R_{Ay} = 114.42 \text{ [N] } \uparrow}$$

$$+\sum F_x = 0: 0 = R_{Ax} - F_{1x} - F_{2x} - F_3$$

$$\rightarrow R_{Ax} = F_1 \cos(\alpha) + F_2 \cos(\beta) + F_3$$

$$\rightarrow \underline{R_{Ax} = 261.5 \rightarrow}$$

$$N(x) \text{ [N]} = \begin{cases} 261.5, & 0 \leq x < 6 \\ 132.1, & 6 \leq x < 25 \\ 24, & 25 \leq x < 31 \end{cases}$$

$$V(x) \text{ [N]} = \begin{cases} 114.4, & 0 \leq x < 6 \\ 20.35, & 6 \leq x < 25 \\ 0, & 25 \leq x < 31 \end{cases}$$

$$M(x) \text{ [Nm]} = \begin{cases} 114.4x - 1074, & 0 \leq x < 6 \\ 20.35x - 501.7, & 6 \leq x < 25 \\ 0, & 25 \leq x < 31 \end{cases}$$

Engineering Mechanics Problems With Solutions

G. Ramamurty



Engineering Mechanics Problems With Solutions

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

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 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

Problems & Solutions in Engineering Mechanics Exp. Teachers,2004-02-01

Engineering Mechanics James L. Meriam,L. G. Kraige,J. N. Bolton,2020-07-28 Engineering Mechanics Dynamics provides a solid foundation of mechanics principles and helps students develop their problem solving skills with an extensive variety of engaging problems related to engineering design More than 50% of the homework problems are new and there are also a number of new sample problems To help students build necessary visualization and problem solving skills this product strongly emphasizes drawing free body diagrams the most important skill needed to solve mechanics problems

Solving Practical Engineering Mechanics Problems Sayavur I. Bakhtiyarov,2018-04-10 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 Engineering Mechanics Problems with MATLAB Rao V. Dukkipati,2009

Engineering Mechanics James L. Meriam,L. G. Kraige,J. N. Bolton,2020-07-15 Engineering Mechanics Statics provides students with a solid foundation of mechanics principles This product helps students develop their problem solving skills with an extensive variety of engaging problems related to engineering design To help students build necessary visualization and problem solving skills a strong emphasis is placed on drawing free body diagrams the most important skill needed to solve mechanics problems

Engineering Mechanics Thomas Alexander Hunter,1961

Engineering Mechanics J. L. Meriam,L. G. Kraige,2010-01-05 SAVES YOUR STUDENT MONEY SAVES YOUR STUDENTS MONEY Provides a wide variety of high quality problems that are known for their accuracy realism applications and variety Students benefit from realistic applications that motivate their desire to learn and develop their problem solving skills Sample Problems with a worked solution step appear throughout providing examples and reinforcing important concepts and idea in engineering mechanics Introductory Problems are simple uncomplicated problems designed to help students gain confidence with a new topic These appear in the problem sets following the Sample Problems Representative Problems are more challenging than Introductory Problems but are of average difficulty and length These appear in the problem sets following the Sample Problems Computer Oriented Problems are marked with an icon and appear in the end of chapter Review Problems Review Problems appear at the end of chapter Offers comprehensive coverage of how to draw free body diagrams Through text discussion and assignable homework problems students will learn that drawing free body diagrams is the most important skill needed to learn how to solve mechanics problems Meriam and Kraige teach students the appropriate techniques and then apply them consistently in solutions of mechanics problems SI Units are covered There are approximately two problems in SI units for every one in U S customary units A tradition of excellence Since 1952 this text has been a primary source for accuracy rigor clarity and a high standard of illustration in the coverage of mechanics theory

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 several spreadsheet problems for modeling of physical phenomena which enable the student to obtain graphical representations of physical quantities and perform numerical analysis of problems without recourse to a high level computer language Adequately equipped with numerous solved problems and exercises this book provides sufficient material for a two semester course The book is essentially designed for all engineering students It would also serve as a ready reference for practicing engineers and for those preparing for competitive examinations It includes previous years question papers and their solutions

Engineering Mechanics J. L. Meriam,L. G. Kraige,2007 Known for its accuracy clarity and applications Meriam Kraige s *Engineering Mechanics Dynamics* has provided a solid foundation of mechanics principles for more than 50 years Now in its new Sixth Edition the text continues to help students develop their problem solving skills with an extensive variety of highly interesting problems related to engineering design In the new edition more than 40% of the homework problems are new There are also new sample problem and more photographs that link theory to application To help students build necessary visualization and problem solving skills the text strongly emphasizes drawing free body diagrams the most important skill needed to solve mechanics problems

Statics James L. Meriam,L. Glenn Kraige,2008 Over the past 50 years Meriam Kraige s *Engineering Mechanics Statics* has established a highly respected tradition of excellence a tradition that emphasizes accuracy rigor clarity and applications Now in a Sixth Edition this classic text builds on these strengths adding a comprehensive course management system Wiley Plus to the text including an e text homework management animations of concepts and additional teaching and learning resources New sample problems new homework problems and updates to content make the book more accessible The Sixth Edition continues to provide a wide variety of high quality problems that are known for their accuracy realism applications and variety motivating students to learn and develop their problem solving skills To build necessary visualization and problem solving skills the Sixth Edition continues to offer comprehensive coverage of drawing free body diagrams the most important skill needed to solve mechanics problems

Engineering Mechanics: Jaget babu,2012 With a clear writing style comprehensive coverage and a variety of solved problems *Engineering Mechanics* is a complete guide to students of engineering mechanics The book uses both the scalar and vector approaches in explaining core concepts which are preceded by a practical example A large number of worked out examples as well as numerous review questions and practice problems at the end of every chapter aid in the understanding and retention

Engineering Mechanics 2 Dietmar Gross, Werner Hauger, Jörg Schröder, Wolfgang A. Wall, Javier Bonet, 2018-03-12 Now in its second English edition Mechanics of Materials is the second volume of a three volume textbook series on Engineering Mechanics It was written with the intention of presenting to engineering students the basic concepts and principles of mechanics in as simple a form as the subject allows A second objective of this book is to guide the students in their efforts to solve problems in mechanics in a systematic manner The simple approach to the theory of mechanics allows for the different educational backgrounds of the students Another aim of this book is to provide engineering students as well as practising engineers with a basis to help them bridge the gaps between undergraduate studies advanced courses on mechanics and practical engineering problems The book contains numerous examples and their solutions Emphasis is placed upon student participation in solving the problems The new edition is fully revised and supplemented by additional examples The contents of the book correspond to the topics normally covered in courses on basic engineering mechanics at universities and colleges Volume 1 deals with Statics and Volume 3 treats Particle Dynamics and Rigid Body Dynamics Separate books with exercises and well elaborated solutions are available

Engineering Mechanics G. Ramamurty, 2011-07 New to this Edition The addition of some more problems which will enhance the contents of the existing text Solutions to typical problems from statics and dynamics will provide the reader sufficient capability for solving the problems of mechanics This textbook focuses on the basic concepts of Engineering Mechanics for providing the fundamental knowledge required for understanding advanced subjects based on mechanics Salient Features Importance of free body diagrams for the analysis of problems has been explained Three important methods for dynamic problems i Newton s second law of motion ii Work Energy method and iii Impulse Momentum method More than 150 sample problems with solutions have been provided for explaining the applications of important principles Fundamentals of mechanical vibrations have been explained with free body diagrams Multiple choice questions have been included

Dynamics - Formulas and Problems Dietmar Gross, Wolfgang Ehlers, Peter Wriggers, Jörg Schröder, Ralf Müller, 2016-10-05 This book contains the most important formulas and more than 190 completely solved problems from Kinetics and Hydrodynamics 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 Kinematics of a Point Kinetics of a Point Mass Dynamics of a System of Point Masses Kinematics of Rigid Bodies Kinetics of Rigid Bodies Impact Vibrations Non Inertial Reference Frames Hydrodynamics

Engineering Mechanics 3 Dietmar Gross, Werner Hauger, Jörg Schröder, Wolfgang A. Wall, Sanjay Govindjee, 2014-04-04 Dynamics is the third volume of a three volume textbook on Engineering Mechanics It was written with the intention of presenting to engineering students the basic concepts and principles of mechanics in as simple a form as the subject allows A second objective of this book is to guide the students in their efforts to solve problems in mechanics in a systematic manner The simple approach to the theory of mechanics allows for the different educational backgrounds of the students Another aim of this book is to provide engineering students as well as practising engineers with a basis to help them bridge the gaps between undergraduate studies advanced courses on mechanics and practical engineering problems The book contains numerous examples and their solutions Emphasis is placed upon student participation in solving the problems The contents of the book correspond to the topics normally covered in courses on basic engineering mechanics at universities and colleges Volume 1 deals with Statics Volume 2 contains Mechanics of Materials

The Mechanics Problem Solver Research and Education Association, 1995

Engineering Mechanics Russell C. Hibbeler, 2010 The Dynamics Study Pack was designed to help students improve their study skills It consists of three study components a chapter by chapter review a free body diagram workbook and an access code for the Companion Website

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