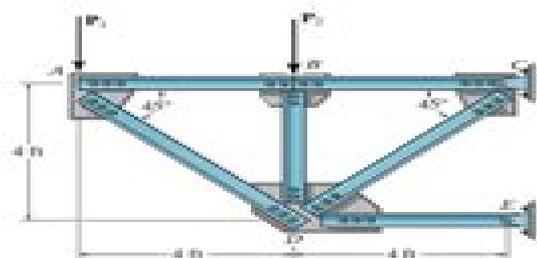


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6-2. The truss, used to support a balcony, is subjected to the loading shown. Approximate each joint as a pin and determine the force in each member. State whether the members are in tension or compression. Set $P_1 = 600$ lb, $P_2 = 400$ lb.



Joint A:

$$+\uparrow \sum F_y = 0; \quad F_{AD} \sin 45^\circ - 600 = 0$$

$$F_{AD} = 848.528 = 849 \text{ lb (C)} \quad \text{Ans}$$

$$+\rightarrow \sum F_x = 0; \quad F_{AB} - 848.528 \cos 45^\circ = 0$$

$$F_{AB} = 600 \text{ lb (T)} \quad \text{Ans}$$



Joint B:

$$+\uparrow \sum F_y = 0; \quad F_{BD} - 400 = 0$$

$$F_{BD} = 400 \text{ lb (C)} \quad \text{Ans}$$

$$+\rightarrow \sum F_x = 0; \quad F_{BC} - 600 = 0$$

$$F_{BC} = 600 \text{ lb (T)} \quad \text{Ans}$$



Joint D:

$$+\uparrow \sum F_y = 0; \quad F_{DE} \sin 45^\circ - 400 - 848.528 \sin 45^\circ = 0$$

$$F_{DE} = 1414.214 \text{ lb} = 1.41 \text{ kip (T)} \quad \text{Ans}$$

$$+\rightarrow \sum F_x = 0; \quad 848.528 \cos 45^\circ + 1414.214 \cos 45^\circ - F_{CD} = 0$$

$$F_{CD} = 1600 \text{ lb} = 1.60 \text{ kip (C)} \quad \text{Ans}$$



Engineering Statics Problems Solutions

Albert A Gayle



Engineering Statics Problems Solutions:

Solutions to Problems in Statics in Engineering Mechanics: Statics Stephen Timoshenko, Donovan Harold Young, 1956

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

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

Applied Mechanics With Solidworks Godfrey C Onwubolu, 2014-12-23 Applied Mechanics with SolidWorks aims to assist students designers engineers and professionals interested in using SolidWorks to solve practical engineering mechanics problems It utilizes CAD software SolidWorks based to teach applied mechanics SolidWorks here is presented as an alternative tool for solving statics and dynamics problems in applied mechanics courses Readers can follow the steps described in each chapter to model parts and analyze them A significant number of pictorial descriptions have been included to guide users through each stage making it easy for readers to work through the text on their own Instructional support videos showing the motions and results of the dynamical systems being analyzed and SolidWorks files for all problems solved are available to lecturers and instructors for free download

700 Solved Problems In Vector Mechanics for Engineers: Dynamics Joseph F. Shelley, 1991-04 Suitable for 2nd year college and university engineering students this book provides them with a source of problems with solutions in vector mechanics that covers various aspects of the basic course It offers the comprehensive solved problem reference in the subject It also provides the student with the problem solving drill

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

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

Engineering Mechanics Thomas Alexander Hunter, 1961 *Algebraic Equations of Linear Elasticity* Lester W. Schmerr Jr., 2024-09-09 This book describes a second generation force based method emerging from a general formulation where the partial differential equations of elasticity are replaced by equivalent algebraic equations These algebraic equations of linear elasticity can be used to solve statically indeterminate problems in reduced forms that define either the new second generation force based approach or a new displacement based approach The new force based method can serve as the basis for teaching students at many technical levels how to solve equilibrium problems directly for the forces present In elasticity courses the derivation and use of the algebraic equations of linear elasticity can show how the difficulties of dealing with partial differential equations may be avoided by transforming those equations into algebraic equations with work energy concepts In a finite element course a force based finite element method can be described along with the traditional displacement based approach to demonstrate how the two methods provide alternative ways for solving complex structural problems Serving as a resource for including second generation force based methods in solid mechanics courses of an engineering curriculum and as a robust learning resource the book is ideal for instructors and for students practicing engineers and researchers

The Engineering Index, 1906 **Proceedings of the American Society of Civil Engineers** American Society of Civil Engineers, 1909 **Mechanics of Materials** Roy R. Craig, Jr., Eric M. Taleff, 2020-08-07 The fourth edition of *Mechanics of Materials* is an in depth yet accessible introduction to the behavior of solid materials under various stresses and strains Emphasizing the three key concepts of deformable body mechanics equilibrium material behavior and geometry of deformation this popular textbook covers the fundamental concepts of the subject while helping students strengthen their problem solving skills Throughout the text students are taught to apply an effective four step methodology to solve numerous example problems and understand the underlying principles of each application Focusing primarily on the behavior of solids under static loading conditions the text thoroughly prepares students for subsequent courses in solids and structures involving more complex engineering analyses and Computer Aided Engineering CAE The text provides ample fully solved practice problems real world engineering examples the equations that correspond to each concept chapter summaries procedure lists illustrations flow charts diagrams and more This updated edition includes new Python computer code examples problems and homework assignments that require only basic programming knowledge

[The Theory of Problem-Solution Dualities and Polarities](#) Kofi Kissi

Dompere,2022-04-25 This book is concerned with the development of the understanding of the relational structures of information knowledge decision choice processes of problems and solutions in the theory and practice regarding diversity and unity principles of knowing science non science and information knowledge systems through dualistic polar conditions of variety existence and nonexistence It is a continuation of the sequence of my epistemic works on the theories on fuzzy rationality info statics info dynamics entropy and their relational connectivity to information language knowing knowledge cognitive practices relative to variety identification problem solution dualities variety transformation problem solution dualities and variety certainty uncertainty principle in all areas of knowing and human actions regarding general social transformations It is also an economic theoretic approach in understanding the diversity and unity of knowing and science through neuro decision choice actions over the space of problem solution dualities and polarities The problem solution dualities are argued to connect all areas of knowing including science and non science social science and non social science into unity with diversities under neuro decision choice actions to support human existence and nonexistence over the space of static dynamic dualities The concepts of diversity and unity are defined and explicated to connect to the tactics and strategies of decision choice actions over the space of problem solution dualities The concepts of problem and solution are defined and explicated not in the space of absoluteness but rather in the space of relativity based on real cost benefit conditions which are shown to be connected to the general parent offspring infinite process where every solution generates new problem s which then generates a search for new solutions within the space of minimum maximum dualities in the decision choice space under the principle of non satiation over the space of preference non preference dualities with analytical tools drawn from the fuzzy paradigm of thought which connects the conditions of the principle of opposites to the conditions of neuro decision choice actions in the zone of variety identifications and transformations The Monograph would be useful to all areas of Research Learning and Teaching at Advanced Stages of Knowing and Knowledge Production

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