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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:

$$\begin{aligned}
 +\uparrow \Sigma F_y = 0; & \quad F_{AD} \sin 45^\circ - 600 = 0 \\
 & \quad F_{AD} = 848.528 = 849 \text{ lb (C)} \quad \text{Ans} \\
 \rightarrow \Sigma F_x = 0; & \quad F_{AB} - 848.528 \cos 45^\circ = 0 \\
 & \quad F_{AB} = 600 \text{ lb (T)} \quad \text{Ans}
 \end{aligned}$$



Joint B:

$$\begin{aligned}
 +\uparrow \Sigma F_y = 0; & \quad F_{BD} - 400 = 0 \\
 & \quad F_{BD} = 400 \text{ lb (C)} \quad \text{Ans} \\
 \rightarrow \Sigma F_x = 0; & \quad F_{BC} - 400 = 0 \\
 & \quad F_{BC} = 400 \text{ lb (T)} \quad \text{Ans}
 \end{aligned}$$



Joint D:

$$\begin{aligned}
 +\uparrow \Sigma F_y = 0; & \quad F_{DC} \sin 45^\circ - 400 - 848.528 \sin 45^\circ = 0 \\
 & \quad F_{DC} = 1414.214 \text{ lb} = 1.41 \text{ kip (T)} \quad \text{Ans} \\
 \rightarrow \Sigma F_x = 0; & \quad 848.528 \cos 45^\circ + 1414.214 \cos 45^\circ - F_{DE} = 0 \\
 & \quad F_{DE} = 1600 \text{ lb} = 1.60 \text{ kip (C)} \quad \text{Ans}
 \end{aligned}$$



Chapter 8 Statics Solution Hibbeler

Hussin A.Rothana



Chapter 8 Statics Solution Hibbeler:

Equilibrium Finite Element Formulations J. P. Moitinho de Almeida, Edward A. Maunder, 2017-03-20 A comprehensive treatment of the theory and practice of equilibrium finite element analysis in the context of solid and structural mechanics Equilibrium Finite Element Formulations is an up to date exposition on hybrid equilibrium finite elements which are based on the direct approximation of the stress fields The focus is on their derivation and on the advantages that strong forms of equilibrium can have either when used independently or together with the more conventional displacement based elements These elements solve two important problems of concern to computational structural mechanics a rational basis for error estimation which leads to bounds on quantities of interest that are vital for verification of the output and provision of outputs immediately useful to the engineer for structural design and assessment Key features Unique in its coverage of equilibrium an essential reference work for those seeking solutions that are strongly equilibrated The approach is not widely known and should be of benefit to structural design and assessment Thorough explanations of the formulations for 2D and 3D continua thick and thin bending of plates and potential problems covering mainly linear aspects of behaviour but also with some excursions into non linearity Highly relevant to the verification of numerical solutions the basis for obtaining bounds of the errors is explained in detail Simple illustrative examples are given together with their physical interpretations The most relevant issues regarding the computational implementation of this approach are presented When strong equilibrium and finite elements are to be combined the book is a must have reference for postgraduate students researchers in software development or numerical analysis and industrial practitioners who want to keep up to date with progress in simulation tools

Engineering Mechanics: Statics R. C. Hibbeler, 1974 *Engineering Mechanics: Statics and Dynamics* R. C. Hibbeler, 1974 **Stress, Strain, and Structural Dynamics** Bingen Yang, 2022-09-13 Stress Strain and Structural Dynamics An Interactive Handbook of Formulas Solutions and MATLAB Toolboxes Second Edition is the definitive reference to statics and dynamics of solids and structures including mechanics of materials structural mechanics elasticity rigid body dynamics vibrations structural dynamics and structural controls The book integrates the development of fundamental theories formulas and mathematical models with user friendly interactive computer programs that are written in MATLAB This unique merger of technical reference and interactive computing provides instant solutions to a variety of engineering problems and in depth exploration of the physics of deformation stress and motion by analysis simulation graphics and animation Combines knowledge of solid mechanics with relevant mathematical physics offering viable solution schemes Covers new topics such as static analysis of space trusses and frames vibration analysis of plane trusses and frames transfer function formulation of vibrating systems and more Empowers readers to better integrate and understand the physical principles of classical mechanics the applied mathematics of solid mechanics and computer methods Includes a companion website that features MATLAB exercises for solving a wide range of complex engineering analytical problems using closed

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