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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 :

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

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

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

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



Joint B :

$$+\circlearrowleft \sum M_F = 0; \quad F_{BE} - 400 = 0$$

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

$$+\rightarrow \sum F_x = 0; \quad F_{BD} - 400 = 0$$

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



Joint D :

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

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

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

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



Statics Hibbeler 12th Edition Solutions

Christian Drosten



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Modelling and Applications Gloria Ann Stillman, Werner Blum, Gabriele Kaiser, 2017-11-05 This volume documents on going research and theorising in the sub field of mathematics education devoted to the teaching and learning of mathematical modelling and applications Mathematical modelling provides a way of conceiving and resolving problems in the life world of people whether these range from the everyday individual numeracy level to sophisticated new problems for society at large Mathematical modelling and real world applications are considered as having potential for multi disciplinary work that involves knowledge from a variety of communities of practice such as those in different workplaces e g those of educators designers construction engineers museum curators and in different fields of academic endeavour e g history archaeology mathematics economics From an educational perspective researching the development of competency in real world modelling involves research situated in crossing the boundaries between being a student engaged in modelling or mathematical application to real word tasks in the classroom being a teacher of mathematical modelling in or outside the classroom or bridging both and being a modeller of the world outside the classroom This is the focus of many of the authors of the chapters in this book All authors of this volume are members of the International Community of Teachers of Mathematical Modelling ICTMA the peak research body into researching the teaching and learning of mathematical modelling at all levels of education from the early years to tertiary education as well as in the workplace **Theory of**

Gyroscopic Effects for Rotating Objects Ryspek Usubamatov, 2022-06-30 This book highlights an analytical solution for the dynamics of axially rotating objects It also presents the theory of gyroscopic effects explaining their physics and using mathematical models of Euler s form for the motion of movable spinning objects to demonstrate these effects The major themes and approaches are represented by the spinning disc and the action of the system of interrelated inertial torques generated by the centrifugal and Coriolis forces as well as the change in the angular momentum The interrelation of inertial torques is based on the dependency of the angular velocities of the motions of the spinning objects around axes by the principle of mechanical energy conservation These kinetically interrelated torques constitute the fundamental principles of the mechanical gyroscope theory that can be used for any rotating objects of different designs like rings cones spheres paraboloids propellers etc Lastly the mathematical models for the gyroscopic effects are validated by practical tests The 2nd edition became necessary due to new development and corrections of mathematical expressions It contains new chapters

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