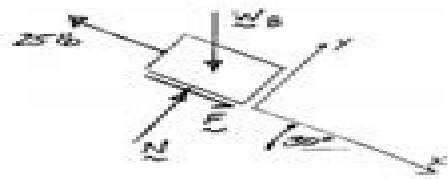


Chapter 8, Solution 1.

FBD Block B:



Tension in cord is equal to $W_A = 25$ lb from FBD's of block A and pulley.

$$\nearrow \Sigma F_y = 0: \quad N - W_B \cos 30^\circ = 0, \quad N = W_B \cos 30^\circ \nearrow$$

(a) For smallest W_B , slip impends up the incline, and

$$F = \mu_s N = 0.35 W_B \cos 30^\circ$$

$$\searrow \Sigma F_x = 0: \quad F - 25 \text{ lb} + W_B \sin 30^\circ = 0$$

$$(0.35 \cos 30^\circ + \sin 30^\circ) W_B = 25 \text{ lb}$$

$$W_{B \min} = 31.1 \text{ lb} \quad \blacktriangleleft$$

(b) For largest W_B , slip impends down the incline, and

$$F = -\mu_s N = -0.35 W_B \cos 30^\circ$$

$$\searrow \Sigma F_x = 0: \quad F_x + W_B \sin 30^\circ - 25 \text{ lb} = 0$$

$$(\sin 30^\circ - 0.35 \cos 30^\circ) W_B = 25 \text{ lb}$$

$$W_{B \max} = 127.0 \text{ lb} \quad \blacktriangleleft$$

Vector Mechanics 8th Solutions Manual

**Ferdinand Pierre Beer, Elwood Russell
Johnston**



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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 *Instructor's and Solutions Manual to Accompany Vector Mechanics for Engineers* ,2007 *Materials with Complex Behaviour II* Andreas Öchsner,Lucas F. M. da Silva,Holm Altenbach,2012-01-05 This volume highlights the latest developments and trends in advanced materials and their properties the modeling and simulation of non classical materials and structures and new technologies for joining materials It presents the developments of advanced materials and respective tools to characterize and predict the material properties and behavior *Vector Mechanics for Engineers* Ferdinand Pierre Beer,Elwood Russell Johnston,1972 *Subject Guide to Books in Print* ,1993 **Solutions Manual to Accompany Vector Mechanics for Engineers** Ferdinand Pierre Beer,Elwood Russell Johnston,1977 **Canadiana** ,1991-05 Scientific and Technical Books in Print ,1972 **Solutions Manual to Accompany Vector Mechanics for Engineers, Statics** Ferdinand Pierre Beer,Elwood Russell Johnston,1982 **Scientific and Technical Books and Serials in Print** ,1989 **Canadian Books in Print** ,1994 *Solutions Manual to Accompany Vector Mechanics for Engineers* ,1996 *Instructor's and Solutions Manual to Accompany Vector Mechanics for Engineer-dynamics* Ferdinand Pierre Beer,Elwood Russell Johnston,William E. Clausen,George Staab,Dean P. Updike,2004 **Solutions Manual to Accompany Vector Mechanics for Engineers** Ferdinand Pierre Beer,Elwood Russell Johnston,1963 Vector Mechanics for Engineers: Solutions Manual; Statics Ferdinand Pierre Beer,Elwood Russell Johnston,1977 **Instructor's Solutions Manual for Problems Supplements to Accompany Vector Mechanics for Engineers, Statics and Dynamics** Henry R. Busby,2001 Books in Print ,1994 **Commands Guide Tutorial for SolidWorks 2012** David C. Planchard,Marie P. Planchard,2011-12-18 The Commands Guide Tutorial for SolidWorks 2012 is a comprehensive reference book written to assist the beginner to intermediate user of SolidWorks 2012 SolidWorks is an immense software package and no one book can cover all topics for all users The book provides a centralized reference location to address many of the tools features and techniques of SolidWorks 2012 This book covers the following System and Document properties FeatureManagers PropertyManagers ConfigurationManagers RenderManagers 2D and 3D Sketch tools Sketch entities 3D Feature tools Motion Study Sheet Metal Motion Study Sustainability Sustainability Xpress FlowXpress PhotoView 360 Pack and Go Intelligent Modeling techniques and more Chapter 1 provides a basic overview of the concepts and terminology used throughout this book using SolidWorks 2012

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