©2016 by John Wiley & Sons. No part of this Instructor's Manual may be reproduced or distributed in any form or by any means without the written consent of the publisher. The publisher hereby limits distribution to instructors who have adopted the corresponding Meriam/Kraige/Bolton textbook. This material is written for instructors and is not intended for students.

$$\mu_{2}N_{3}$$
 $\mu_{1}=0.7$ 
 $\mu_{2}=0.4$ 
 $\mu_{2}=0.4$ 
 $\mu_{1}N_{1}$ 
 $\mu_{1}N_{1}$ 
 $\mu_{1}N_{1}$ 
 $\mu_{3}=0.7$ 
 $\mu_{2}=0.4$ 

Block:

$$\begin{cases} \sum F_{\chi} = 0: -mg \sin 20^{\circ} + N_{z} - \mu_{z} N_{1} = 0 \\ \sum F_{y} = 0: -mg \cos 20^{\circ} + N_{1} - \mu_{z} N_{z} = 0 \end{cases}$$
 (2)

Wedge:

$$\begin{aligned} & \{ \Sigma F_{X} = 0 : N_{3} \cos 5^{\circ} - \mu_{2} N_{3} \sin 5^{\circ} - N_{2} = 0 \ (3) \\ & \{ \Sigma F_{Y} = 0 : N_{3} \sin 5^{\circ} + \mu_{2} N_{3} \cos 5^{\circ} + \mu_{2} N_{2} - P = 0 \\ & \{ N_{1} = 396 \ N \ N_{2} = 368 \ N \\ & \{ N_{3} = 383 \ N \ P = 333 \ N \end{aligned}$$