

$$\boxed{1/1} \quad V = \sqrt{V_x^2 + V_y^2} = \sqrt{36^2 + 15^2} = 39$$

$$\cos \theta_x = \frac{V_x}{V} = \frac{-36}{39}, \quad \underline{\theta_x = 157.4^\circ}$$

$$\cos \theta_y = \frac{V_y}{V} = \frac{15}{39}, \quad \underline{\theta_y = 67.4^\circ}$$

$$\underline{n} = \frac{\underline{V}}{V} = \frac{-36\underline{i} + 15\underline{j}}{39} = \underline{-0.923\underline{i} + 0.385\underline{j}}$$

Manual Solution Of Statics Meriam 6th Edition

Karin Nielsen-Saines



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Obenski,Thomas R. Osborn,2003-01-01 This book is not an advanced engineering text Rather it is a practical presentation with traffic accident reconstruction principles presented in a simple understandable manner so that the reader will easily retain these important concepts The engineering principles involved are introduced at the elementary level and in many cases equations used in freshman physics are derived The authors believe that the derivations are presented in the simplest manner possible so that the reader will retain this material The book is the result of an effort to compile over a period of years useful forensic engineering data information and analytical techniques over and above those taught to non engineers Many of the mathematical treatments are original In general the book reflects the authors combined over forty years experience of forensic investigations involving thousands of cases It offers something for everyone interested in forensic engineering In the new second edition Chapters 3 to 5 have been substantially modified and the remainder of the text has been edited to bring its various parts up to date The experienced investigator will find a wealth of new ideas and relationships to fill in gaps in his knowledge and reinforce his analytical approaches Those starting new in this work will have an advantage on their competition after studying this material For the non technical reader most of the book is eminently readable To an investigator attorney or insurance adjuster with only a nodding acquaintance with freshman physics the book should be totally comprehensible **Paperbacks in Print** ,1975 *Fundamentals of Engineering High-Performance Actuator Systems* Kenneth Hummel,2016-12-01 Actuators are the key to allowing machines to become more sophisticated and perform complex tasks that were previously done by humans providing motion in a safe controlled manner As defined in

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