

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

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

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

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

Statics Meriam 7th Solution

Jessica J Manson



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Scientific and Technical Books in Print ,1972

British Books in Print ,1985

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Engineering Mechanics: Static James L. Meriam,1997

Engineering Mechanics, Statics, Study Guide J. L.

Meriam,1997-03-14 This concise and authoritative book emphasizes basic principles and problem formulation It illustrates both the cohesiveness of the relatively few fundamental ideas in this area and the great variety of problems these ideas solve All of the problems address principles and procedures inherent in the design and analysis of engineering structures and mechanical systems with many of the problems referring explicitly to design considerations Scientific and Technical Books and Serials in Print ,1989 *Mechanical Engineer's Reference Book* A. Parrish,2014-05-19 Mechanical Engineer's Reference Book 11th Edition presents a comprehensive examination of the use of Syst me International d Unit s SI metrication It discusses the effectiveness of such a system when used in the field of engineering It addresses the basic concepts involved in thermodynamics and heat transfer Some of the topics covered in the book are the metallurgy of iron and steel screw threads and fasteners hole basis and shaft basis fits an introduction to geometrical tolerancing mechanical working of steel high strength alloy steels advantages of making components as castings and basic theories of material properties The definitions and classifications of refractories are fully covered An in depth account of the mechanical properties of non ferrous materials is provided Different fabrication techniques are completely presented A chapter is devoted to description of tubes for water gas sanitation and heating services Another section focuses on the accountant's measure of productivity The book can provide useful information to engineers metallurgists students and researchers

Books in Print ,1991

Books in Print Supplement ,1994

Engineering Education ,1990

Railroad Record and

Journal of Commerce, Banking, Manufactures and Statistics ,1854

Computer-Aided Processes in Instruction and

Research George C. Beakley,C. R. Haden,2014-05-10 Computer Aided Processes in Instruction and Research describes the course content computer performance software developed and the manner that they are used by each student during the design process This book describes the database that is developed to further aid students who use the digital computer Organized into 24 chapters this book begins with an overview of the design of an aerospace vehicle This text then explains the fundamentals of microcomputers and the use of computer aided data acquisition in a mechanical measurements course

Other chapters provide a brief explanation for the heavy use of graphics which is applied when comparing graphical input to numerical input This book presents as well a summary of work on a project that combines computer aided instruction CAI and artificial intelligence AI The final chapter deals with the establishment of a joint venture between universities and industry whereby the university utilizes equipment provided by industry to solve some of the existing problems This book is a valuable resource for engineering students and practicing engineers **Applied Mechanics Reviews** ,1948

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