

1-25.

Determine the magnitude of the resultant force and its direction, measured clockwise from the positive x axis.



Solution

Scalar Notation. Summing the force components along x and y axes by referring to Fig. a,

$$+\circlearrowleft (F_R)_x = \Sigma F_x; \quad (F_R)_x = 400 \cos 30^\circ + 800 \sin 45^\circ = 912.10 \text{ N} \quad \text{Ans.}$$

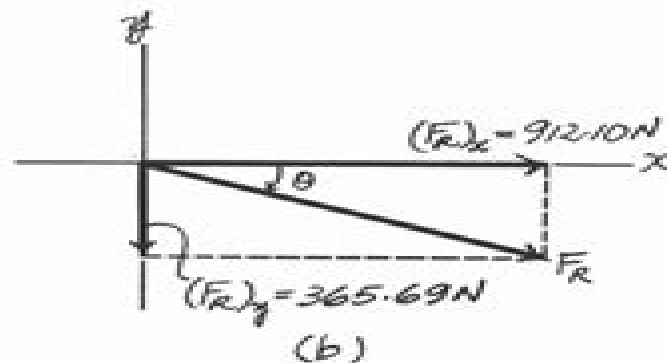
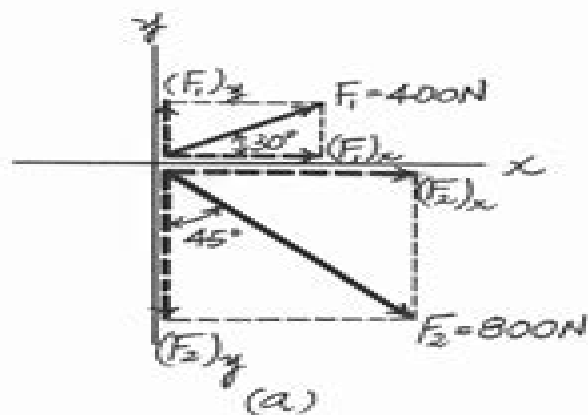
$$+ \circlearrowleft (F_R)_y = \Sigma F_y; \quad (F_R)_y = 400 \sin 30^\circ - 800 \cos 45^\circ = -365.69 \text{ N} = 365.69 \text{ N} \downarrow$$

Referring to Fig. b, the magnitude of the resultant force is

$$F_R = \sqrt{(F_R)_x^2 + (F_R)_y^2} = \sqrt{912.10^2 + 365.69^2} = 982.67 \text{ N} = 983 \text{ N} \quad \text{Ans.}$$

And its directional angle θ measured clockwise from the positive x axis is

$$\theta = \tan^{-1} \left(\frac{(F_R)_y}{(F_R)_x} \right) = \tan^{-1} \left(\frac{365.69}{912.10} \right) = 21.84^\circ = 21.8^\circ \quad \text{Ans.}$$



Ans:

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AW Chickering



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Online Solutions Manual for Engineering Mechanics J. L. Meriam, 2003-03-27 A modern text for use in today's classroom The revision of this classic text continues to provide the same high quality material seen in previous editions In addition the fifth edition provides extensively rewritten updated prose for content clarity superb new problems outstanding instruction on drawing free body diagrams and new electronic supplements to assist learning and instruction If you think you have seen Meriam Kraige before take another look it's not what you remember it to be it's better [Catalog of Copyright Entries. Third Series](#) Library of Congress. Copyright Office, 1976 *700 Solved Problems In Vector Mechanics for Engineers: Dynamics* Joseph F. Shelley, 1991-04 Suitable for 2nd year college and university engineering students this book provides them with a source of problems with solutions in vector mechanics that covers various aspects of the basic course It offers the comprehensive solved problem reference in the subject It also provides the student with the problem solving drill

Using the Engineering Literature, Second Edition Bonnie A. Osif, 2011-08-09 With the encroachment of the Internet into nearly all aspects of work and life it seems as though information is everywhere However there is information and then there is correct appropriate and timely information While we might love being able to turn to Wikipedia for encyclopedia like information or search Google for the thousands of links on a topic engineers need the best information information that is evaluated up to date and complete Accurate vetted information is necessary when building new skyscrapers or developing new prosthetics for returning military veterans While the award winning first edition of *Using the Engineering Literature* used a roadmap analogy we now need a three dimensional analysis reflecting the complex and dynamic nature of research in the information age *Using the Engineering Literature Second Edition* provides a guide to the wide range of resources available in all fields of engineering This second edition has been thoroughly revised and features new sections on nanotechnology as well as green engineering The information age has greatly impacted the way engineers find information Engineers have an effect directly and indirectly on almost all aspects of our lives and it is vital that they find the right information at the right time to create better products and processes Comprehensive and up to date with expert chapter authors this book fills a gap in the literature providing critical information in a user friendly format **An Elementary**

Treatise on Theoretical Mechanics: Introduction to dynamics; statics Alexander Ziwet, 1893 *A Manual of Practical Assaying* Howard Van Fleet Furman, 1908 **Elemente de statică** Nicolae Ursu-Fischer, Diana Ioana Popescu, 2024-02-09

Cartea de fa este dedicat primei ramuri a mecanicii statica oferind o prezentare clar i cuprinz toare a no iunilor i pun nd accentul pe n elegerea conceptelor fundamentale i pe aplicarea lor n diverse contexte practice Autorii i au propus s fac studiul staticii c t mai accesibil i u or de n eles pentru cititori indiferent de nivelul lor de experien n domeniul mecanicii Stilul de scriere este clar i detaliat astfel nc t cititorii s poat urm ri u or conceptele de baz i s n eleag no iunile prezentate f r preten ia de a fi familiariza i cu terminologia sau cu matematica avansat Exemplele practice i grafica asociat au fost inserate cu aten

ie pentru a ilustra conceptele i pentru a face con inutul c t mai intuitiv Cartea con ine un num r foarte mare de probleme rezolvate si propuse de diverse grade de dificultate unele mai accesibile autorii au avut n vedere faptul c n prezent preg tirea n domeniul matematicii a multor studen i este deficitar iar altele necesit nd cuno tin e aprofundate din domeniile geometriei algebrei i ale metodelor numerice Lucrarea este structurat pe zece capitole ncep nd cu introducerea n conceptele de baz ale mecanicii i abord nd apoi gradual fiecare aspect specific al staticii echilibrul punctului material geometria maselor i centrele de mas echilibrul solidului rigid echilibrul sistemelor de puncte materiale i de solide rigide echilibrul firelor Pentru a asigura o n elegere solid a acestor subiecte autorii au inclus la nceputul lucr rii un capitol dedicat calculului vectorial i calculului matriceal cu aplica ii n mecanica static precum i un capitol care trateaz reducerea sistemelor de for e

A Manual of Mining Magnus Colbjørn Ihlseng, Eugene Benjamin Wilson, 1911 **Problem Solving in Soil Mechanics** A. Aysen, 2021-07-13 Written for university students taking first degree courses in civil engineering environmental and agricultural engineering Problem Solving in Soil Mechanics stimulates problem solving learning as well as facilitating self teaching Generally assuming prior knowledge of subject necessary basic information is included to make it accessible to readers new to the topic Filled with worked examples new and advanced topics and with a flexible structure that means it can be adapted for use in second third and fourth year undergraduate courses in soil mechanics this book is also a valuable resource for the practising professional engineer as well as undergraduate and postgraduate students Primarily designed as a supplement to Soil Mechanics Basic Concepts and Engineering Applications this book can be used by students as an independent problem solving text since there are no specific references to any equations or figures in the main book

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