



PROBLEM 2.9

A disabled automobile is pulled by means of two ropes as shown. Knowing that the tension in rope AB is 3 kN, determine by trigonometry the tension in rope AC and the value of α so that the resultant force exerted at A is a 4.8-kN force directed along the axis of the automobile.

SOLUTION



Using the law of cosines:

$$T_{AC}^2 = (3 \text{ kN})^2 + (4.8 \text{ kN})^2 - 2(3 \text{ kN})(4.8 \text{ kN})\cos 30^\circ$$
$$T_{AC} = 2.6643 \text{ kN}$$

Using the law of sines:

$$\frac{\sin \alpha}{3 \text{ kN}} = \frac{\sin 30^\circ}{2.6643 \text{ kN}}$$
$$\alpha = 34.3^\circ$$

$$T_{AC} = 2.66 \text{ kN} \quad \square \quad 34.3^\circ \quad \blacktriangleleft$$

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The Publishers' Trade List Annual, 1979 **Vector Mechanics for Engineers, Statics** Ferdinand Pierre Beer, E. Russell Johnston, Jr., Elliot R. Eisenberg, George H. Staab, 2004 Book is published and available as of 6/03 For the past forty years Beer and Johnston have been the uncontested leaders in the teaching of undergraduate engineering mechanics Over the years their textbooks have introduced significant theoretical and pedagogical innovations in statics dynamics and mechanics of materials education At the same time their careful presentation of content unmatched levels of accuracy and attention to detail have made their texts the standard for excellence The new Seventh Edition of Vector Mechanics for Engineers Statics continues this tradition

Canadian Books in Print, 1993 **Materials with Complex Behaviour II**

Andreas Öchsner, Lucas F. M. da Silva, Holm Altenbach, 2012-01-04 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

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 clară și cuprindând toare a noilor iuniori și punând accentul pe năvălirea conceptelor fundamentale și pe aplicarea lor în diverse contexte practice Autorii își au propus să facă studiul staticii cătă mai accesibil și ușor de înțeles pentru cititorii indiferent de nivelul lor de experiență în domeniul mecanicii Stilul de scriere este clar și detaliat astfel încât cititorii să poată urmări ușor concepțele de bază și să înleagă noile iuniori prezentate și să le prețină de a fi familiarizați cu terminologia sau cu matematica avansată Exemplele practice și grafica asociată au fost inserate cu atenție pentru a ilustra concepțele și pentru a face conținutul cătă mai intuitiv Cartea conține un număr foarte mare de probleme rezolvate și propuse de diverse grade de dificultate unele mai accesibile autorii au avut în vedere faptul că în prezent prezentă în domeniul matematicii a multor studenți este deficitar iar altele necesită cunoștințe și aprofundare din domeniile geometriei algebrei și ale metodelor numerice Lucrarea este structurată pe zece capitole începând cu introducerea în concepțele de bază ale mecanicii și abordând apoi gradual fiecare aspect specific al staticii echilibrul punctului material geometria maselor și centrele de masă echilibrul solidului rigid echilibrul sistemelor de puncte materiale și de solide rigide

echilibrul firelor Pentru a asigura o neregula solid a acestor subiecte autorii au inclus la inceputul lucrarii un capitol dedicat calculului vectorial și calculului matriceal cu aplicații în mecanica statică precum și un capitol care tratează reducerea sistemelor de forțe. Scientific and Technical Books and Serials in Print, 1989 **Mechanical Engineering News**, 1978

Applied Mechanics Reviews, 1948 American Book Publishing Record, 1963 *Scientific and Technical Books in Print*, 1972 The Cumulative Book Index, 1978 A world list of books in the English language **Engineering Education**, 1986 **Journal of Applied Mechanics**, 1972 Publishes original research in all branches of mechanics including aerodynamics, aeroelasticity, boundary layers, computational mechanics, constitutive modeling of materials, dynamics, elasticity, flow and fracture, heat transfer, hydraulics, impact, internal flow, mechanical properties of materials, micromechanics, plasticity, stress analysis, structures, thermodynamics, turbulence, vibration and wave propagation *Subject Guide to Books in Print*, 1984 **Catalog of Copyright Entries. Third Series** Library of Congress, Copyright Office, 1961 Includes Part 1 Number 1-2 Books and Pamphlets Including Serials and Contributions to Periodicals January December *Proceedings 1985 Frontiers in Education Conference* Lawrence P. Grayson, Joseph M. Biedenbach, 1985 The Homiletic Review, 1916

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