



SAMPLE PROBLEM 2.1

The two forces **P** and **Q** act on a bolt **A**. Determine their resultant.

SOLUTION

Graphical Solution. A parallelogram with sides equal to **P** and **Q** is drawn to scale. The magnitude and direction of the resultant are measured and found to be

$$R = 98 \text{ N} \quad \alpha = 35^\circ \quad R = 98 \text{ N} \angle 35^\circ \quad \blacktriangleleft$$

The triangle rule may also be used. Forces **P** and **Q** are drawn in tip-to-tail fashion. Again the magnitude and direction of the resultant are measured.

$$R = 98 \text{ N} \quad \alpha = 35^\circ \quad R = 98 \text{ N} \angle 35^\circ \quad \blacktriangleleft$$

Trigonometric Solution. The triangle rule is again used; two sides and the included angle are known. We apply the law of cosines.

$$R^2 = P^2 + Q^2 - 2PQ \cos B$$

$$R^2 = (40 \text{ N})^2 + (60 \text{ N})^2 - 2(40 \text{ N})(60 \text{ N}) \cos 155^\circ$$

$$R = 97.73 \text{ N}$$

Now, applying the law of sines, we write

$$\frac{\sin A}{Q} = \frac{\sin B}{R} \quad \frac{\sin A}{60 \text{ N}} = \frac{\sin 155^\circ}{97.73 \text{ N}} \quad (1)$$

Solving Eq. (1) for $\sin A$, we have

$$\sin A = \frac{(60 \text{ N}) \sin 155^\circ}{97.73 \text{ N}}$$

Using a calculator, we first compute the quotient, then its arc sine, and obtain

$$A = 15.04^\circ \quad \alpha = 20^\circ + A = 35.04^\circ$$

We use 3 significant figures to record the answer (cf. Sec. 1.6):

$$R = 97.7 \text{ N} \angle 35.0^\circ \quad \blacktriangleleft$$

Alternative Trigonometric Solution. We construct the right triangle **BCD** and compute

$$CD = (60 \text{ N}) \sin 25^\circ = 25.36 \text{ N}$$

$$BD = (60 \text{ N}) \cos 25^\circ = 54.38 \text{ N}$$

Then, using triangle **ACD**, we obtain

$$\tan A = \frac{25.36 \text{ N}}{54.38 \text{ N}} \quad A = 15.04^\circ$$

$$R = \frac{25.36}{\sin A} \quad R = 97.73 \text{ N}$$

Again,

$$\alpha = 20^\circ + A = 35.04^\circ \quad R = 97.7 \text{ N} \angle 35.0^\circ \quad \blacktriangleleft$$



Vector Mechanics For Engineers Dynamics 9th Chapter Solutions

Teodor M. Atanackovic, Ardeshir Guran



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'American Book Publishing Record' Cumulative R. R. Bowker LLC,1978 **Engineering Education** ,1977

Sociodynamics Wolfgang Weidlich,2006-07-07 Highly recommended This is an important book in putting the burgeoning field of sociodynamics on a solid footing Journal of Artificial Societies and Social Simulation This text deals with general modelling concepts in the social sciences their applications and their mathematical methods The author s well organized approach offers a clear coherent introduction to terminology approaches and goals in modelling Appropriate for advanced undergraduates and graduate students it requires a solid background in algebra and calculus The three part treatment begins by addressing general modelling concepts the second part provides applications and the third discusses mathematical method Topics include population dynamics group interaction political transitions evolutionary economics and urbanization Guiding students through a series of practical applications that illustrate the methods potential scope the text concludes with a detailed look at mathematical methods **Theory of Elasticity for Scientists and Engineers** Teodor M.

Atanackovic, Ardeshir Guran, 2012-12-06 This book is intended to be an introduction to elasticity theory. It is assumed that the student before reading this book has had courses in mechanics statics dynamics and strength of materials mechanics of materials. It is written at a level for undergraduate and beginning graduate engineering students in mechanical civil or aerospace engineering. As a background in mathematics readers are expected to have had courses in advanced calculus linear algebra and differential equations. Our experience in teaching elasticity theory to engineering students leads us to believe that the course must be problem solving oriented. We believe that formulation and solution of the problems is at the heart of elasticity theory. Of course orientation to problem solving philosophy does not exclude the need to study fundamentals. By fundamentals we mean both mechanical concepts such as stress deformation and strain compatibility conditions constitutive relations energy of deformation and mathematical methods such as partial differential equations complex variable and variational methods and numerical techniques. We are aware of many excellent books on elasticity some of which are listed in the References. If we are to state what differentiates our book from other similar texts we could besides the already stated problem solving orientation list the following: study of deformations that are not necessarily small selection of problems that we treat and the use of Cartesian tensors only.

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Mechanics of Asphalt: Microstructure and Micromechanics Linbing Wang, 2010-10-08 A State of the Art Guide to the Mechanics of Asphalt Concrete Mechanics of Asphalt systematically covers both the fundamentals and most recent developments in applying rational mechanics microstructure characterization methods and numerical tools to understand the behavior of asphalt concrete AC The book describes the essential mathematics mechanics and numerical techniques required for comprehending advanced modeling and simulation of asphalt materials and asphalt pavements Filled with detailed illustrations this authoritative volume provides rational mechanisms to guide the development of best practices in mix design construction methods and performance evaluation of asphalt concrete Mechanics of Asphalt covers Fundamentals for mathematics and continuum mechanics Mechanical properties of constituents including binder aggregates mastics and mixtures Microstructure characterization Experimental methods to characterize the heterogeneous strain field Mixture theory and micromechanics applications Fundamentals of phenomenological models Multiscale modeling and moisture damage Models for asphalt concrete including viscoplasticity viscoplasticity with damage disturbed state mechanics model and fatigue failure criteria Finite element method boundary element method and discrete element method Digital specimen and digital test integration of microstructure and simulation Simulation of asphalt compaction Characterization and modeling of anisotropic properties of asphalt concrete

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