



## 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 Solution

**SJ Ball**



## **Vector Mechanics For Engineers Dynamics 9th Solution:**

**Dynamics - Formulas and Problems** Dietmar Gross, Wolfgang Ehlers, Peter Wriggers, Jörg Schröder, Ralf Müller, 2016-10-05 This book contains the most important formulas and more than 190 completely solved problems from Kinetics and Hydrodynamics It provides engineering students material to improve their skills and helps to gain experience in solving engineering problems Particular emphasis is placed on finding the solution path and formulating the basic equations Topics include Kinematics of a Point Kinetics of a Point Mass Dynamics of a System of Point Masses Kinematics of Rigid Bodies Kinetics of Rigid Bodies Impact Vibrations Non Inertial Reference Frames Hydrodynamics *Advanced Computing in Industrial Mathematics* Krassimir Georgiev, Michail Todorov, Ivan Georgiev, 2017-02-06 This book presents recent research on Advanced Computing in Industrial Mathematics which is one of the most prominent interdisciplinary areas and combines mathematics computer science scientific computations engineering physics chemistry medicine etc Further the book presents the tools of Industrial Mathematics which are based on mathematical models and the corresponding computer codes which are used to perform virtual experiments to obtain new data or to better understand the existing experimental results The book gathers the peer reviewed papers presented during the 10th Annual Meeting of the Bulgarian Section of SIAM BGSIAM from December 21 to 22 2015 in Sofia Bulgaria Modeling and Analysis of Dynamic Systems Ramin S. Esfandiari, 2018-01-29 Modeling and Analysis of Dynamic Systems Third Edition introduces MATLAB Simulink and SimscapeTM and then utilizes them to perform symbolic graphical numerical and simulation tasks Written for senior level courses modules the textbook meticulously covers techniques for modeling a variety of engineering systems methods of response analysis and introductions to mechanical vibration and to basic control systems These features combine to provide students with a thorough knowledge of the mathematical modeling and analysis of dynamic systems The Third Edition now includes Case Studies expanded coverage of system identification and updates to the computational tools included 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

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