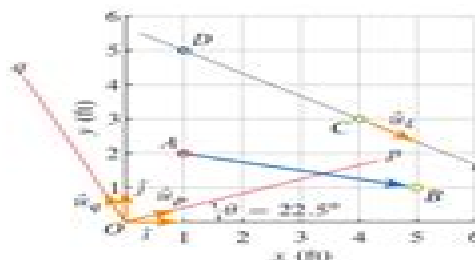


Problem 1.4 i

Determine expressions for the vector $\vec{r}_{B/A}$ using both the xy and the pq coordinate systems. Next, determine $|\vec{r}_{B/A}|$, the magnitude of $\vec{r}_{B/A}$, using both the xy and the pq representations and establish whether or not the two values for $|\vec{r}_{B/A}|$ are equal to each other.



Solution

Using the component system formed by the unit vectors $\hat{i}$ and $\hat{j}$, the vector $\vec{r}_{B/A}$ can be written as $\vec{r}_{B/A} = (x_B - x_A)\hat{i} + (y_B - y_A)\hat{j}$, where (x_A, y_A) and (x_B, y_B) are the Cartesian coordinates of points A and B relative to the xy coordinate system, respectively. By inspection we have $(x_A, y_A) = (1.000, 2.000)$ ft and $(x_B, y_B) = (5.000, 1.000)$ ft. Therefore, we have

$$\vec{r}_{B/A} = (4.000\hat{i} - 1.000\hat{j}) \text{ ft}, \quad (1)$$

which, when expressed to three significant figures, gives

$$\vec{r}_{B/A} = (4.00\hat{i} - 1.00\hat{j}) \text{ ft}.$$

Now we find the unit vectors $\hat{u}_p$ and $\hat{u}_q$, which are the unit vectors orienting the p and q axes, respectively,

$$\hat{u}_p = \cos \theta_p \hat{i} + \sin \theta_p \hat{j} \quad \text{and} \quad \hat{u}_q = \cos \theta_q \hat{i} + \sin \theta_q \hat{j}, \quad (2)$$

where θ_p and θ_q are the angles formed by the p and q axes with the positive x axis, respectively, and therefore are given by $\theta_p = \theta = 22.5^\circ$, $\theta_q = (\theta + 90^\circ) = 112.5^\circ$. Consequently, Eqs. (2) and (3) become

$$\hat{u}_p = 0.9239\hat{i} + 0.3827\hat{j} \quad \text{and} \quad \hat{u}_q = -0.3827\hat{i} + 0.9239\hat{j}. \quad (3)$$

Then, using Eqs. (1) and (3), the expression for $\vec{r}_{B/A}$ in the pq component system is

$$\begin{aligned} \vec{r}_{B/A} &= (\hat{u}_p \cdot \vec{r}_{B/A})\hat{u}_p + (\hat{u}_q \cdot \vec{r}_{B/A})\hat{u}_q \\ &= \{[(4.000\hat{i} - 1.000\hat{j}) \text{ ft}] \cdot (0.9239\hat{i} + 0.3827\hat{j})\}\hat{u}_p \\ &\quad + \{[(4.000\hat{i} - 1.000\hat{j}) \text{ ft}] \cdot (-0.3827\hat{i} + 0.9239\hat{j})\}\hat{u}_q \\ &= (3.313\hat{u}_p - 2.455\hat{u}_q) \text{ ft}, \end{aligned} \quad (4)$$

which, when expressed to three significant figures gives

$$\vec{r}_{B/A} = (3.31\hat{u}_p - 2.46\hat{u}_q) \text{ ft}.$$

Engineering Mechanics Gray Solution

David H. Jonassen



Engineering Mechanics Gray Solution:

Engineering Mechanics, 1898 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

Advances in Engineering Materials, Structures and Systems: Innovations, Mechanics and Applications Alphose Zingoni, 2019-08-21 Advances in Engineering Materials Structures and Systems Innovations Mechanics and Applications comprises 411 papers that were presented at SEMC 2019 the Seventh International Conference on Structural Engineering Mechanics and Computation held in Cape Town South Africa from 2 to 4 September 2019 The subject matter reflects the broad scope of SEMC conferences and covers a wide variety of engineering materials both traditional and innovative and many types of structures The many topics featured in these Proceedings can be classified into six broad categories that deal with i the mechanics of materials and fluids elasticity plasticity flow through porous media fluid dynamics fracture fatigue damage delamination corrosion bond creep shrinkage etc ii the mechanics of structures and systems structural dynamics vibration seismic response soil structure interaction fluid structure interaction response to blast and impact response to fire structural stability buckling collapse behaviour iii the numerical modelling and experimental testing of materials and structures numerical methods simulation techniques multi scale modelling computational modelling laboratory testing field testing experimental measurements iv innovations and special structures nanostructures adaptive structures smart structures composite structures bio inspired structures shell structures membranes space structures lightweight structures long span structures tall buildings wind turbines etc v design in traditional engineering materials steel concrete steel concrete composite aluminium masonry timber glass vi the process of structural engineering conceptualisation planning analysis design optimization construction assembly manufacture testing maintenance monitoring assessment repair strengthening retrofitting decommissioning The SEMC 2019 Proceedings will be of interest to civil structural mechanical marine and aerospace engineers Researchers developers practitioners and academics in these disciplines will find them useful Two versions of the papers are available Short versions intended to be concise but self contained summaries of the full papers are in this printed book The full versions of the papers are in the e book *Engineering Mechanics: Statics and Dynamics* Francesco Costanzo, Michael Plesha, Gary Gray, 2009-04-16 Plesha Gray and Costanzo s Engineering Mechanics Statics Dynamics presents the fundamental concepts clearly in a modern context using applications and pedagogical devices that connect with today s students The text features a problem solving methodology that is consistently used throughout all

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Table of Contents Engineering Mechanics Gray Solution

1. Understanding the eBook Engineering Mechanics Gray Solution
 - The Rise of Digital Reading Engineering Mechanics Gray Solution
 - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Mechanics Gray Solution
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Engineering Mechanics Gray Solution
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Mechanics Gray Solution
 - Personalized Recommendations
 - Engineering Mechanics Gray Solution User Reviews and Ratings
 - Engineering Mechanics Gray Solution and Bestseller Lists
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 - Engineering Mechanics Gray Solution Enhanced eBook Features
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 - Highlighting and Note-Taking Engineering Mechanics Gray Solution
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 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Engineering Mechanics Gray Solution
- 9. Balancing eBooks and Physical Books Engineering Mechanics Gray Solution
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Engineering Mechanics Gray Solution
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Engineering Mechanics Gray Solution
 - Setting Reading Goals Engineering Mechanics Gray Solution
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Engineering Mechanics Gray Solution
 - Fact-Checking eBook Content of Engineering Mechanics Gray Solution
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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