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Since the vector we are looking for is parallel to xy-plane, it does not depend on z and let that vector be $\vec{v} = x\hat{i} + y\hat{j}$. Perpendicular to $4\hat{i} - 3\hat{j} + \hat{k}$ implies, $(x\hat{i} + y\hat{j}) \cdot (4\hat{i} - 3\hat{j} + \hat{k}) = 0$ $4x - 3y = 0$ $\Rightarrow x = \frac{3}{4}y$ Therefore the unit vector \hat{v} is $\hat{v} = \frac{3}{5}\hat{i} + \frac{4}{5}\hat{j}$. Q5. In terms of ...

Solution to Homework 1. Vector Analysis (P201)

subjects home. contents chapter previous next prep find. contents: vector analysis chapter 01: vectors and scalars. chapter 02: magnitude, linear dependence and base vectors. chapter 03: the scalar product and the vector product. chapter 04: ordinary derivatives of vectors. chapter 05: applications of ordinary derivatives of vectors in

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6 Chapter 1 Vector Analysis Exercises 1.1.1 Show how to find A and B , given $A+B$ and $A-B$. 1.1.2 The vector A whose magnitude is 1.732 units makes equal angles with the coordinate axes. Find A_x, A_y , and A_z . 1.1.3 Calculate the components of a unit vector that lies in the xy -plane and makes equal angles with the positive directions of the x - and y -axes. 1.1.4 The velocity of sailboat A relative ...

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CHAPTER 3. VECTOR ANALYSIS Vector product or cross product: $A \times B = |A||B|\sin\theta \hat{n}$ where \hat{n} is a unit vector normal to the plane containing A and B (see picture below for details) (a) Cross product (b) Right-hand rule $\hat{z} = \hat{y} \times \hat{x} = \hat{n}$ $\hat{A} \times \hat{B} = \sin\theta \hat{n}$ $\hat{A} \times \hat{B} = -\hat{B} \times \hat{A}$ $\hat{A} \times (\hat{B} + \hat{C}) = \hat{A} \times \hat{B} + \hat{A} \times \hat{C}$ Figure 3-6 Cross product $A \times B$ points in the direction \hat{n} , which is perpendicular to ...

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CHAPTER 1. VECTOR ANALYSIS 6 where the vector \hat{n} has unit length (unit vector) $|\hat{n}| = 1$ (1.14) which is non-commutative (or anti-commutative) $A \times B = -B \times A$ (1.15) and distributive $A \times (B+C) = A \times B + A \times C$. (1.16) Geometrically the magnitude of vector $A \times B$ is the area of parallelogram generated by A and B and points in the direction \hat{n} perpendicular

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MATH 550, VECTOR ANALYSIS, EXTRA HOMEWORK 3 AND SOLUTIONS Problem 0. Suppose $a, b, c \in \mathbb{R}^3$. Show that $(a \cdot b) c = \dots$ Suppose \hat{u} is a unit vector in the abstract vector space V , and $2 \in \mathbb{R}$. For every vector r in V define: $R(\hat{u})r = r \cos \theta + \hat{u}(\hat{u} \cdot r)(1 - \cos \theta)$...

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