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But this book, in the introduction, actually criticizes other texts for requiring the students to do exercises, and goes on to make the following stunning statement: "The staff of REA considers vector analysis a subject that is best learned by allowing students to view the methods of analysis

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and solution techniques themselves."

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Since the vector we are looking for is parallel to xy -plane, it does not depend not 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 $\hat{v} = \frac{3\hat{i} + 4\hat{j}}{\sqrt{3^2 + 4^2}} = \frac{3}{5}\hat{i} + \frac{4}{5}\hat{j}$. Q5. In terms of ...

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Chapter 1 Vector Analysis

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Problem 5.3. If $S \subseteq V$ be a linear subspace of a vector space show that the relation on V (5.3) $v_1 \sim v_2$ ($\Leftrightarrow v_1 - v_2 \in S$) is an equivalence relation and that the set of equivalence classes, denoted usually V/S ; is a vector space in a natural way. Problem 5.4. In case you do not know it, go through the basic theory of finite-dimensional vector spaces.

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Fds using a parametrization of C and a chosen orientation for C . (c) Write $C = \int_S \mathbf{C} \cdot d\mathbf{S}$ for a suitably chosen surface S and, applying Stokes' theorem, verify your answer in (b). (d) Consider the sphere with radius $p/2$ and center the origin. Let S_0 be the part of the sphere that is above the curve (i.e., lies in the region $z \geq 1$), and has C as boundary.

Notes of Vector Analysis [MathCity.org]

Schaum's Outline of THEORY and PROBLEMS of VECTOR ANALYSIS and an introduction to TENSOR ANALYSIS err. r. r r r. r r. r r ray R Spiegel, Ph D I i, r m r r P: u f r '11 and (h u t r » r n r t t f a t h r m n n r c Department

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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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Solution to Homework 1. Vector Analysis (P201)

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notes are given below.

Problems and solutions

Schaum's outline of theory and problems of vector analysis and an introduction to tensor analysis
Schaum's outline series Material Type Book Language English Title Schaum's outline of theory and
problems of vector analysis and an introduction to tensor analysis Schaum's outline series Author(S)
Murray R. Spiegel (Author) Publication Data

Copyright code : e2552dc868f2859b6cab231354e4b72.