

Chapter 1

Vector Analysis

Problem 1.1

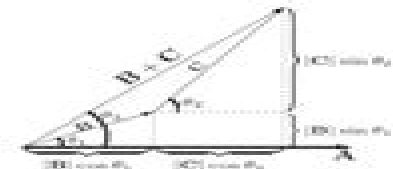
- (a) From the diagram, $|\mathbf{B} + \mathbf{C}| \cos \theta_3 = |\mathbf{B}| \cos \theta_1 + |\mathbf{C}| \cos \theta_2$. Multiply by $|\mathbf{A}|$.
 $|\mathbf{A}||\mathbf{B} + \mathbf{C}| \cos \theta_3 = |\mathbf{A}||\mathbf{B}| \cos \theta_1 + |\mathbf{A}||\mathbf{C}| \cos \theta_2$.

So: $\mathbf{A} \cdot (\mathbf{B} + \mathbf{C}) = \mathbf{A} \cdot \mathbf{B} + \mathbf{A} \cdot \mathbf{C}$. (Dot product is distributive)

Similarly: $|\mathbf{B} + \mathbf{C}| \sin \theta_3 = |\mathbf{B}| \sin \theta_1 + |\mathbf{C}| \sin \theta_2$. Multiply by $|\mathbf{A}| \hat{n}$.
 $|\mathbf{A}||\mathbf{B} + \mathbf{C}| \sin \theta_3 \hat{n} = |\mathbf{A}||\mathbf{B}| \sin \theta_1 \hat{n} + |\mathbf{A}||\mathbf{C}| \sin \theta_2 \hat{n}$.

If $\hat{n}$ is the unit vector pointing out of the page, it follows that

$\mathbf{A} \times (\mathbf{B} + \mathbf{C}) = (\mathbf{A} \times \mathbf{B}) + (\mathbf{A} \times \mathbf{C})$. (Cross product is distributive)



- (b) For the general case, see G. E. Hay's *Vector and Tensor Analysis*, Chapter 1, Section 7 (dot product) and Section 8 (cross product)

Problem 1.2

The triple cross-product is *not* in general associative. For example, suppose $\mathbf{A} = \mathbf{B}$ and $\mathbf{C}$ is perpendicular to $\mathbf{A}$, as in the diagram. Then $(\mathbf{B} \times \mathbf{C})$ points out-of-the-page, and $\mathbf{A} \times (\mathbf{B} \times \mathbf{C})$ points down, and has magnitude ABC . But $(\mathbf{A} \times \mathbf{B}) = \mathbf{0}$, so $(\mathbf{A} \times \mathbf{B}) \times \mathbf{C} = \mathbf{0} \neq \mathbf{A} \times (\mathbf{B} \times \mathbf{C})$.

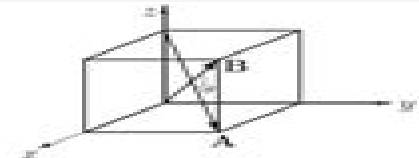


Problem 1.3

$$\mathbf{A} = +1\hat{x} + 1\hat{y} - 1\hat{z}; A = \sqrt{3}; \mathbf{B} = 1\hat{x} + 1\hat{y} + 1\hat{z}; B = \sqrt{3}.$$

$$\mathbf{A} \cdot \mathbf{B} = +1 + 1 - 1 = 1 = AB \cos \theta = \sqrt{3}\sqrt{3} \cos \theta \Rightarrow \cos \theta = \frac{1}{3}.$$

$$\theta = \cos^{-1} \left(\frac{1}{3} \right) \approx 70.5288^\circ$$



Problem 1.4

The cross-product of any two vectors in the plane will give a vector perpendicular to the plane. For example, we might pick the base ($\mathbf{A}$) and the left side ($\mathbf{B}$):

$$\mathbf{A} = -1\hat{x} + 2\hat{y} + 0\hat{z}; \mathbf{B} = -1\hat{x} + 0\hat{y} + 3\hat{z}.$$

Griffiths Solutions Manual Of Vector Analysis

H Kauffman



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Introduction to Vector Analysis Solutions Manual Harry F. Davis, Hawkes Learning Systems, Arthur David Snider, 2007-01-01 *A Student's Manual for A First Course in General Relativity* Robert B. Scott, 2016 This comprehensive student manual has been designed to accompany the leading textbook by Bernard Schutz *A First Course in General Relativity* and uses detailed solutions cross referenced to several introductory and more advanced textbooks to enable self learners undergraduates and postgraduates to master general relativity through problem solving The perfect accompaniment to Schutz s textbook this manual guides the reader step by step through over 200 exercises with clear easy to follow derivations It provides detailed solutions to almost half of Schutz s exercises and includes 125 brand new supplementary problems that address the subtle points of each chapter It includes a comprehensive index and collects useful mathematical results such as transformation matrices and Christoffel symbols for commonly studied spacetimes in an appendix Supported by an online table categorising exercises a Maple worksheet and an instructors manual this text provides an invaluable resource for all students and instructors using Schutz s textbook **Student Solutions Manual [for] Vector Calculus** Susan Jane Colley, 2006 *Plant Analysis* D Reuter, JB Robinson, 1997 *Plant Analysis An Interpretation Manual* 2nd Edition is an easily accessible compilation of data summarising the range of nutrient concentration limits for crops pastures vegetables fruit trees vines ornamentals and forest species This information is valuable in assessing the effectiveness of fertiliser programs and for monitoring longer term changes in crop nutritional status New to this edition Volume and scope of information accessed from the literature has expanded several fold Interpretation criteria for 294 species have been compiled in the tables from more than 1872 published papers New chapter on nutrient criteria for forest species Includes guidelines for collecting handling and analysing plant material An entire chapter is devoted to the identification of nutrient deficiency and toxicity symptoms Books in Series ,1985 Vols for 1980 issued in three parts Series Authors and Titles *Books in Print Supplement* ,1985 *American Book Publishing Record Cumulative, 1950-1977* R.R. Bowker Company. Department of Bibliography, 1978 Scientific and Technical Aerospace Reports ,1994 **Notices of the American Mathematical Society** American Mathematical Society, 1979 **Nature** Sir Norman Lockyer, 1921 Books in Print ,1991 *Whitaker's Book List* ,1991 *Cumulated Index Medicus* ,1974 Vector Calculus Thomas H. Barr, 2001 **ECIAIR 2019 European Conference on the Impact of Artificial Intelligence and Robotics** Dr Paul Griffiths ,Dr. Mitt Nowshade Kabir ,2019-10-31 **The Industrial Electronics Handbook - Five Volume Set** Bogdan M. Wilamowski, J. David Irwin, 2011-03-04 Industrial electronics systems govern so many different functions that vary in complexity from the operation of relatively simple applications such as electric motors to that of more complicated machines and systems including robots and entire fabrication processes The Industrial Electronics Handbook Second Edition combines traditional and new **Nuclear Science Abstracts** ,1974 the educational times ,1882 Educational Times ,1882 *Essential*

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