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Chapter 4: Scalar and Vector Fields. Chapter 5: Integration Along Paths. Chapter 6: Double and Triple Integrals. Chapter 7: Integrations Over Surfaces, Properties, and Applications of Integrals. Chapter 8: Classical Integration Theorems of Vector Calculus. Appendix A: Various Results Used in This Book and Proofs of Differentiation Theorems.

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About the Author. Miroslav Lovric, Ph.D, is Associate Professor in the Department of Mathematics and Statistics at McMaster University in Ontario, Canada.

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Lecture 15: Vector Operator Identities (RHB 8.8 all

Vector algebra: scalar and vector products; scalar and vector triple products; geometric applications. Differentiation of a vector function; scalar and vector fields. Gradient, divergence and curl - definitions and physical interpretations; product formulae; curvilinear coordinates. Gauss'

2A1VectorAlgebraandCalculus

(a) Fourier theory, (b) the calculus of variations, and (c) partial differential equations and (d) vector calculus. In (a), we develop tools to decompose a periodic function as a (possibly infinite) sum of sine and cosine modes. In (b), the fundamental problem is to determine a function which either

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Appendix D: Some Details of Vector Calculus and Linear Algebra This appendix discusses a few mathematical details connected with vector calculus, which are needed in several places of the book. Consider a linear transformation between lattice vectors  $R_1, R_2, R_3$  and  $R_{10}, R_{20}, R_{30}$ , where  $R_0 = \frac{1}{2} \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}$  ...

Appendix D: Some Details of Vector Calculus and Linear Algebra

INTEGRAL CALCULUS BY R. COURANT Professor of Mathematics in New York University TRANSLATED BY E. J. McSHANE Professor of Mathematics in the University of Virginia VOLUME II Wiley Classics Library Edition Published 1988 WILEY WILEY - INTERSCIENCE A DIVISION OF JOHN WILEY & SONS, INC.

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Topics page. I'll do most examples and proofs at the blackboard, but will use the classroom data camera to summarize topics covered. I'll scan and post those summaries here Reserves The following are on reserve in Steacie library: Multivariable Mathematics by T. Shifrin; Wiley (2005). This is the course textbook