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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;

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curvilinear coordinates. Gauss '

2A1 Vector Algebra and Calculus

(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 $R_0 = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}$ $B = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}$ $A = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}$...

Appendix D: Some Details of Vector Calculus and Linear Algebra
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Mathematics in New York University TRANSLATED BY E. J.
McSHANE Professor of Mathematics in the University of Virginia
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