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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

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Integration Theorems of Vector
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element and dA an area element. Note that different conventions, e.g. for the angles α and ...

Lecture 15: Vector Operator Identities
(RHB 8.8 all

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products; geometric applications.
Differentiation of a vector function;
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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

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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 \mathbb{R}^1 , \mathbb{R}^2 , \mathbb{R}^3 and \mathbb{R}^{10} , \mathbb{R}^{20} ,

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R 30, where R0 1 R0 2 R0 3 0 B B @
1 C C A $\frac{1}{4}$ t 11 t 12 t 13 t 21 ...

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