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~~Vector Identities proof of  $\nabla \times (\mathbf{F} \times \mathbf{G}) =$   
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Chapter 4: Scalar and Vector Fields.

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Chapter 5: Integration Along Paths.

Chapter 6: Double and Triple Integrals.

Chapter 7: Integrations Over Surfaces,  
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we review here polar co-ordinate systems. Polar Co-ordinate Systems Here  $dV$  indicates a volume element and  $dA$  an area element. Note that different conventions, e.g. for the angles  $\theta$  and  $\phi$  ...

Lecture 15: Vector Operator Identities  
(RHB 8.8 all)

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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'

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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 determine a function which

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Calculus and Linear Algebra This  
appendix discusses a few mathematical  
details connected with vector calculus,  
which are needed in several places of the

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book. Consider a linear transformation  
between lattice vectors  $R_1, R_2, R_3$  and  
 $R_{10}, R_{20}, R_{30}$ , where  $R_0 = R_1 R_2 R_3 = 0$   
 $B @ 1 C C A \frac{1}{4} t_{11} t_{12} t_{13} t_{21} \dots$

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