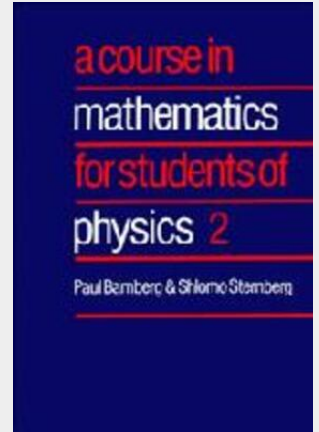


A Course in Mathematics for Students of Physics

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This textbook, available in two volumes, has been developed from a course taught at Harvard over the last decade. The course covers principally the theory and physical applications of linear algebra and of the calculus of several variables, particularly the exterior calculus. The authors adopt the 'spiral method' of teaching, covering the same topic several times at increasing levels of sophistication and range of application. Thus the reader develops a deep, intuitive understanding of the subject as a whole, and an appreciation of the natural progression of ideas. Topics covered include many items previously dealt with at a much more advanced level, such as algebraic topology (introduced via the analysis of electrical networks), exterior calculus, Lie derivatives, and star operators (which are applied to Maxwell's equations and optics). This then is a text which breaks new ground in presenting and applying sophisticated mathematics in an elementary setting. Any student, interpreted in the widest sense, with an interest in physics and mathematics, will gain from its study.



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Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780521406505
Medium: Buch
ISBN: 978-0-521-40650-5
Verlag: Cambridge University Press
Erscheinungstermin: 19.08.1991
Sprache(n): Englisch
Auflage: Erscheinungsjahr 1991
Produktform: Kartoniert
Gewicht: 859 g
Seiten: 461
Format (B x H): 191 x 235 mm

