



Mathematics for Physics

Michael M. Woolfson, Malcolm S. Woolfson

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Mathematics is the essential language of science. It enables us to describe abstract physical concepts, and to apply these concepts in practical ways. Yet mathematical skills and concepts are an aspect of physics that many students fear the most.

Mathematics for Physics recognizes the challenges faced by students in equipping themselves with the maths skills necessary to gain a full understanding of physics. Working from basic yet fundamental principles, the book builds the students' confidence by leading them through the subject in a steady, progressive way.

As its primary aim, *Mathematics for Physics* shows the relevance of mathematics to the study of physics. Its unique approach demonstrates the *application* of mathematical concepts alongside the development of the mathematical theory. This stimulating and motivating approach helps students to master the maths and see its application in the context of physics in one seamless learning experience.

Mathematics is a subject mastered most readily through active learning. *Mathematics for Physics* features both print and online support, with many in-text exercises and end-of-chapter problems, and web-based computer programs, to both stimulate learning and build understanding.

Mathematics for Physics is the perfect introduction to the essential mathematical concepts which all physics students should master.



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