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A first Course in Mathematical Physics

By Whelan, Colm T.

Condition: New. Publisher/Verlag: Wiley-VCH | Assuming next to no prior knowledge of the topic, this is a much needed introduction to mathematical physics for freshmen students in Physical Sciences and Engineering to learn simply and easily the underlying mathematics and its applications. | The book assumes next to no prior knowledge of the topic. The first part introduces the core mathematics, always in conjunction with the physical context. In the second part of the book, a series of examples showcases some of the more conceptually advanced areas of physics, the presentation of which draws on the developments in the first part. A large number of problems helps students to hone their skills in using the presented mathematical methods. Solutions to the problems are available to instructors on an associated password-protected website for lecturers. | Preface page ixPart I: Mathematics 11 Functions of one variable 21.1 Limits 21.2 Elementary Calculus 61.2.1 Chain Rule 71.2.2 Differentiation products and quotients 81.2.3 Inverse Functions 91.3 Integration 101.4 The Binomial Expansion 131.5 Taylor's series 151.6 Extrema 171.7 Power Series 181.8 Basic Functions 191.8.1 Exponential 191.8.2 Logarithm 231.9 1st order ordinary differential equations 241.10 Trigonometric Functions 261.10.1 L'Hopital's rule 281.11 Problems 302 Complex numbers 332.1 Exponential...



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