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Mathematical skills and concepts lie at the heart of chemistry; however, they are also often the aspects of the subject that students fear the most. Now in a new edition, Maths for Chemistry addresses the challenges faced by many students in acquiring the math skills necessary to gain a full understanding of chemistry. Working from basic yet essential principles, this unique text builds students' confidence by leading them through the subject in a steady, progressive way, moving from basic algebra all the way to quantum mathematics. Employing a modular structure, authors Paul Monk and Lindsey J. Munro present the material in short, manageable sections in order to keep the content as accessible as possible.

Opening with an introduction to the "language" of math and the fundamental rules of algebra, Maths for Chemistry goes on to cover powers, indices, logs and exponential functions, graphical functions, and trigonometry before leading students through both differentiation and integration and on to quantum mathematics. It is the first book of its kind to use chemical examples throughout in order to demonstrate the relevance of mathematical concepts to the study of chemistry. The volume is enhanced by definitions of all key terms, self-check questions, and extensive end-of-chapter problems. A Companion Website features additional resources for both students and instructors.

New to this Edition:

* Substantially expanded content featuring eight new chapters including Matrices, Vectors and Determinants, and Complex Numbers
* Updated references and links to useful websites
* New multiple-choice questions available on the Companion Website