



Maths for Chemistry: A chemist's toolkit of calculations

By Paul Monk, Lindsey J. Munro

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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.

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Editorial Review

Review

"The book is well-written throughout and has an admirable step-by-step approach to teaching."--*Chemistry World*

About the Author

Revd Dr Paul Monk is Team Vicar at Medlock Head Parish in Oldham and was Senior Lecturer in Physical Chemistry in the Department of Chemistry and Materials at Manchester Metropolitan University, Manchester, where he lectured and researched since 1991. Dr Monk gained a BSc (Hons) in Chemistry and a PhD on electrochemistry from the University of Exeter. His research investigates electrochromism and the development of electrochromic materials, a subject area in which he has published over 40 journal articles and several monographs. He is the author of two textbooks, *Electroanalytical Chemistry: Principles and Fundamental Applications* (Wiley, 2001); and *Physical Chemistry - Exploring our Chemical World* (Wiley, 2004). Lindsey J. Munro received both an MA in Natural Sciences and a PhD in Theoretical Chemistry from the University of Cambridge (Downing College). Postdoctoral Research Fellowships at the University of Pittsburgh and in industry in Switzerland followed. After having compared life as a researcher in both industry and universities, she opted for the freedom of academia and returned home to start life as a lecturer at the Manchester Metropolitan University. She currently lectures in Thermodynamics and Quantum Mechanics, whilst pursuing her research into understanding flavour using computational chemistry.

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