

Applying Maths in the Chemical and Biomolecular Sciences: An Example-Based Approach

Godfrey Beddard



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Applying Maths in the Chemical and Biomolecular Sciences uses an extensive array of examples to demonstrate how mathematics can be applied to chemical and biological systems. Integrating computer software to solve mathematical problems, the text addresses such issues as how vectors help us work out the conformation of DNA or proteins, how matrices help us tackle problems in quantum mechanics, and what differential equations have to do with molecular dynamics and the spread of disease.

An accompanying Online Resource Centre features additional resources for both lecturers and students, enhancing the value of the text as a teaching and learning tool. For lecturers, the website offers figures from the text in electronic format, solutions to half of the problems presented in the book, and a guide tailoring the book for users of Mathematica.

Suitable for both undergraduate and graduates, *Applying Maths in the Chemical and Biomolecular Sciences* is appropriate for mathematics classes that make applications to chemistry, biochemistry, and biophysical chemistry.

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