Advanced Chemistry Philip Matthews

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This textbook has been written to appeal to A-level chemistry students. It covers the syllabuses of all the main examining boards offering A-level chemistry and also contains some material suitable for S-level students. The author places the subject in context by discussing the nature and, where relevant, the economics of the chemical industry and the wider social implications and applications of chemistry.
Cambridge Low Price Editions are reprints of internationally respected books from Cambridge University Press. Advanced Chemistry covers the syllabuses of all the main examining boards offering A-level chemistry, and contains material suitable for students beginning undergraduate study. The author places the subject in context by discussing the nature and the wider implications and applications of

chemistry. The material is divided into four parts: physical, industrial, inorganic and organic chemistry. Each part is divided into short self-contained units, each of which develops a set of well-defined themes or concepts. Students may work through the units in order, or individual units may be used separately.

Computational chemistry is increasingly used in most areas ofmolecular science including organic, inorganic, medicinal,biological, physical, and analytical chemistry. Researchers inthese fields who do molecular modelling need to understand and staycurrent with recent developments. This volume, like those prior toit, features chapters by experts in various fields of computationalchemistry. Two chapters focus on molecular docking, one of whichrelates to drug discovery and cheminformatics and the other toproteomics. In addition, this volume contains tutorials onspin-orbit coupling and cellular automata modeling, as well as anextensive bibliography of computational chemistry books. FROM REVIEWS OF THE SERIES "Reviews in Computational Chemistryremains the most valuable reference to methods and techniques incomputational chemistry."—JOURNAL OF MOLECULAR GRAPHICS ANDMODELLING "One cannot generally do better than to try to find anappropriate article in the highly successful Reviews inComputational Chemistry. The basic philosophy of the editors seemsto be to help the authors produce chapters that are complete,accurate, clear, and accessible to experimentalists (in particular)and other nonspecialists (in general)."—JOURNAL OF THEAMERICAN CHEMICAL SOCIETY

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Advanced Chemistry (Cambridge Low-price Edition)Cambridge University Press

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New Scientist magazine was launched in 1956 "for all those men and women who are interested in scientific discovery, and in its industrial, commercial and social consequences". The brand's mission is no different today - for its consumers, New Scientist reports, explores and interprets the results of human endeavour set in the context of society and culture.

IN the republic of letters, there is no member of such inferior rank, or who is so much disdained by his brethren of the quill, as the humble Novelist; nor is his fate less hard in the world at large, since, among the whole class of writers, perhaps not one can be named of which the votaries are more numerous but less respectable. Yet, while in the annals of those few of our predecessors, to whom this species of writing is indebted for being saved from contempt, and rescued from depravity, we can trace such names as Rousseau, Johnson,(1)Marivaux, Fielding, Richardson, and Smollett, no man need blush at starting from the same post, though many, nay, most men, may sigh at finding themselves distanced. The following letters are presented to the Public-for such, by novel writers, novel readers will be called,-with a very singular mixture of timidity and confidence, resulting from the peculiar situation of the editor; who, though trembling for

their success from a consciousness of their imperfections, yet fears not being involved in their disgrace, while happily wrapped up in a mantle of impenetrable obscurity. To draw characters from nature, though not from life, and to mark the manners of the times, is the attempted plan of the following letters. For this purpose, a young female, educated in the most secluded retirement, makes, at the age of seventeen, her first appearance upon the great and busy stage of life; with a virtuous mind, a cultivated understanding, and a feeling heart, her ignorance of the forms, and inexperience in the manners of the world, occasion all the little incidents which these volumes record, and which form the natural progression of the life of a young woman of obscure birth, but conspicuous beauty, for the first six months after her Entrance into the world.

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A range of textbooks and teacher support materials for AS and A level Pre 2008 specification. Developed specifically for the new specifications for Advanced Level Chemistry for teaching from September 2000, Gases, Liquids and Solids has been endorsed by OCR for use with the OCR Chemistry specification A. It provides full coverage of the Chemistry option module In combination with other books in the series it provides full coverage of the Advanced Level specifications. Learning objectives are clearly defined, Self-assessment questions (with answers) and exam-style end-of-chapter exercises offer excellent opportunities for independent study. Chapter introductions and summaries provide the basis for structured revision. Full-colour illustration and student-friendly design make the science accessible to all.

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Advanced Chemistry is an accessible, up-to-date textbook which has been written to appeal directly to A-level Chemistry students. It covers the syllabuses of all the main examining boards offering A-Level Chemistry and contains material suitable for students beginning undergraduate study.The author places the subject in context by discussing the nature, and, where relevant, the economics of the chemical industry and wider implications and applications of chemistry.The material is divided into four parts: physical, industrial, inorganic and organic chemistry. Each part is divided into short self-contained units each of whihc develops a set of well-defined themes or concepts. Students may work through the units in order, or individual units may be used separately. Each unit is divided into sections, with short questions at the end of each section which may be used by students as a means of self-assessment. More extensive questions on the physical and industrial chemistry sections are given at the end of the book. These may be used to provide material for student assignments, and to provide students with practice in answering examination questions.

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