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Advanced Chemistry: Volume 1 by Philip Matthews

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Philip Matthews is the author of Advanced Chemistry (4.25 avg rating, 32 ratings, 4 reviews, published 1991), Advanced Chemistry (4.40 avg rating, 5 rat...

Philip Matthews (Author of Advanced Chemistry)

Here are a few recommendations for A-level chemistry, made by fellow students such as yourself. TSR is a good student resource for A-level prep since there is are masses of students talking about the same topics. (Zumdahl is a good general chemistry textbook as well, with quite the number of practice problems. However it is a full-fledged textbook you probably don't need a few days before an exam.)

Advanced Level Chemistry Book Recommendation - Chemistry ...

1.1 Atomic Structure (AQA GCE AS level chemistry). Atomic structure, sub-atomic particles, Bohr model and isotopes. Mass spectrometry - introduction (including determination of relative atomic mass, molecular mass). Electronic Structure of atoms and ionisation energies (7 sections on 3 linked pages) eg. Introduction to s p d f orbitals and electronic energy levels and order of filling of ...

AQA GCE AS level chemistry advanced subsidiary ...

Philips is the author of Advanced Solid State Physics, a textbook that describes modern advanced-level solid state physics at the graduate level, with a focus on cutting-edge topics such as topological insulators, strongly correlated electrons, and electron transport, published by Cambridge University Press in 2012.. He has also contributed chapters to four other books.

Philip Phillips (physicist) - Wikipedia

I am well-versed in advanced courses - MCAT Prep as well as Org. chem 1 & 2, and general chemistry, general physics, and courses for chemistry major. I use an easy approach to AP chemistry, AP physics, and AP calculus. I received my Masters Degree in chemistry. I also majored in Organic Chemistry at the graduate school of Johns Hopkins University.

Philip S. - Chemistry, Physics, and Calculus Tutor in ...

Cameron College of Arts, Science and Technology, Bambill (Affiliated with the University of London) General Certificate of Education (GCE) Advanced Level, Biology, Chemistry, & Physics, 1970 - 1971

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.

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 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. 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.

A new approach to teaching university-level chemistry that links core concepts of chemistry and physical science to current global challenges. Introductory chemistry and physics are generally taught at the university level as isolated subjects, divorced from any compelling context. Moreover, the "formalism first" teaching approach presents students with disembodied knowledge, abstract and learned by rote. By contrast, this textbook presents a new approach to teaching university-level chemistry that links core concepts of chemistry and physical science to current global challenges. It provides the rigorous development of the principles of chemistry but places these core concepts in a global context to engage developments in technology, energy production and distribution, the irreversible nature of climate change, and national security. Each chapter opens with a "Framework" section that establishes the topic's connection to emerging challenges. Next, the "Core" section addresses concepts including the first and second law of thermodynamics, entropy, Gibbs free energy, equilibria, acid-base reactions, electrochemistry, quantum mechanics, molecular bonding, kinetics, and nuclear. Finally, the "Case Studies" section explicitly links the scientific principles to an array of global issues. These case studies are designed to build quantitative reasoning skills, supply the technology background, and illustrate the critical global need for the infusion of technology into energy generation. The text's rigorous development of both context and scientific principles equips students for advanced classes as well as future involvement in scientific and societal arenas. University Chemistry was written for a widely adopted course created and taught by the author at Harvard.

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Images and text capture the astonishing beauty of the chemical processes that create snowflakes, bubbles, flames, and other wonders of nature. Chemistry is not just about microscopic atoms doing inscrutable things; it is the process that makes flowers and galaxies. We rely on it for bread-baking, vegetable-growing, and producing the materials of daily life. In stunning images and illuminating text, this book captures chemistry as it unfolds. Using such techniques as microphotography, time-lapse photography, and infrared thermal imaging, The Beauty of Chemistry shows us how chemistry underpins the formation of snowflakes, the science of champagne, the colors of flowers, and other wonders of nature and technology. We see the marvelous configurations of chemical gardens; the amazing transformations of evaporation, distillation, and precipitation; heat made visible; and more.

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.

Environmental Organic Chemistry focuses on environmental factors that govern the processes that determine the fate of organic chemicals in natural and engineered systems. The information discovered is then applied to quantitatively assessing the environmental behaviour of organic chemicals. Now in its 2nd edition this book takes a more holistic view on physical-chemical properties of organic compounds. It includes new topics that address aspects of gas/solid partitioning, bioaccumulation, and transformations in the atmosphere. Structures chapters into basic and sophisticated sections Contains illustrative examples, problems and case studies Examines the fundamental aspects of organic, physical and inorganic chemistry - applied to environmentally relevant problems Addresses problems and case studies in one volume

Made to Measure introduces a general audience to one of today's most exciting areas of scientific research: materials science. Philip Ball describes how scientists are currently inventing thousands of new materials, ranging from synthetic skin, blood, and bone to substances that repair themselves and adapt to their environment, that swell and flex like muscles, that repel any ink or paint, and that capture and store the energy of the Sun. He shows how all this is being accomplished precisely because, for the first time in history, materials are being "made to measure": designed for particular applications, rather than discovered in nature or by haphazard experimentation. Now scientists literally put new materials together on the drawing board in the same way that a blueprint is specified for a house or an electronic circuit. But the designers are working not with skylights and alcoves, not with transistors and capacitors, but with molecules and atoms. This book is written in the same engaging manner as Ball's popular book on chemistry, Designing the Molecular World, and it links insights from chemistry, biology, and physics with those from engineering as it outlines the various areas in which new materials will transform our lives in the twenty-first century. The chapters provide vignettes from a broad range of selected areas of materials science and can be read as separate essays. The subjects include photonic materials, materials for information storage, smart materials, biomaterials, biomedical materials, materials for clean energy, porous materials, diamond and hard materials, new polymers, and surfaces and interfaces.

Exam Board: OCR Level: AS/A-level Subject: Chemistry First Teaching: September 2015 First Exam: Summer 2016 Written by experienced author Mike Smith, this Student Guide for Chemistry: - Helps identify what you need to know with a concise summary of the topics examined in the AS and A-level specifications - Consolidates understanding with tips and knowledge check questions - Provides opportunities to improve exam technique with sample answers to exam-style questions - Develops independent learning and research skills - Provides the content for generating individual revision notes

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