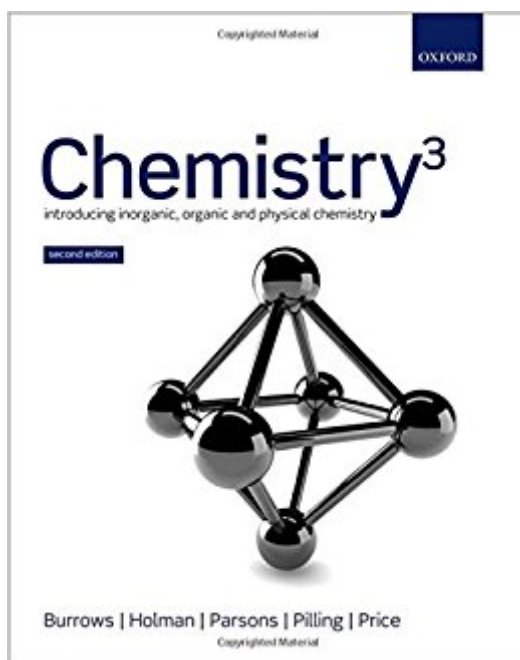


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Chemistry³: Introducing Inorganic, Organic, And Physical Chemistry



Synopsis

Unique among introductory chemistry texts, Chemistry, Second Edition, is written by a team of chemists to give equal coverage of organic, inorganic, and physical chemistry--coverage that is uniformly authoritative throughout. A special feature is the mechanistic approach to organic chemistry, rather than the old-fashioned "functional group" approach. Chemistry tackles two issues pervading chemistry education: students' mathematical skills, and their ability to see the subject as a single, unified discipline. It provides structured support, in the form of careful explanations, reminders of key mathematical concepts, step-by-step calculations in worked examples, and a Maths Toolkit, to help students get to grips with the essential mathematical element of chemistry. Frequent cross-references highlight the connections between each strand of chemistry and explain the relationship between the topics so that students can develop an understanding of the subject as a whole. An accompanying Companion Website (www.oup.com/uk/orc/bin/9780199691852) offers a variety of resources: For students:- Interactive and animation-based activities- Fully worked answers to many questions from the book- 3D rotatable molecular structures - Interactive 3D animations of key reactions- Videos - Links to relevant video content- Learning outcomes, summaries, and key equations for each chapter- A "Transition to Chemistry" site For instructors (registered adopters of the book)- A test bank of multiple-choice questions- Downloadable illustrations from the book

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Customer Reviews

Review from previous edition: "On reading the background information provided for this text, I could immediately see the potential benefit of such a book for first year undergraduate students studying

chemistry or related courses. I believe that with the increased coverage, combined with the attractive layout and writing style, this text will be very well accepted by the staff and students of Chemistry Departments, particularly in the UK." --Mike Hird, University of Hull "I was particularly impressed by the way in which the physical basis of key mathematical equations was presented and discussed in clear simple language. The authors adopt the approach taken by myself in my lectures, in which I attempt to convey to the students the sense that an equation is not only a jumble of arcane symbols but contains a clear meaning which can be subjected to a clear and concise explanation and interpretation." --Mike Lyons, Trinity College, Dublin "Where it is superior, is in its ability to actually teach the students rather than just lecture to them." --James Barker, University of Kingston "It is such a great book and I am sure that my OUP rep is sick of me calling her and raving about it! Chapter 13 is stunning-it is so well written and it so easy to teach from. The authors have obviously been involved in chemistry education." --Mark Ellison, Australian National University "This is a book that shines out amongst so many other graduate texts in the field of chemistry. It does not try to encompass the whole of a degree course in a single text; rather it addresses the specific needs of the first year undergraduate. It does so in a refreshingly open and 'familiar way'." --Reviews, The Higher Education Academy UK Physical Sciences Centre "In view of its quality and advantageous price this book is especially recommended to its target audience, as well as everyone for whom an up-to-date introduction to chemistry is suitable." --CLB Chemie in Labor und Biotechnik, April 2010 "A simple uncluttered layout, amply illustrated with contemporary 'real world' examples, clearly demarcates different sections. The book positively blooms; it is beautifully illustrated and operates on many levels without feeling cluttered, juggling chemistry theory, equations and history in a manner that enriches rather than overloads the reading experience" --Ewan Miller, Second-year Medicine Undergraduate, University of Aberdeen "This is the only textbook I will need to use for all of first year due to the well explained, detailed content." --Kirsty Purchase, Student, University of St Andrews

Andrew Burrows teaches in the Department of Chemistry at the University of Bath. John Holman is Professor of Science Education and Director of the National Science Learning Centre, University of York. Andrew Parsons teaches in the Department of Chemistry at the University of York. Gwen Pilling was formerly part of the Science Education Group at the University of York. Gareth Price teaches in the Department of Chemistry at the University of Bath.

An absolute delight of a book ... written really clearly and although in an Indian context the inorganic

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