



Modern Methods of Organic Synthesis

By *W. Carruthers, Iain Coldham*

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The fourth edition of this well-known textbook discusses the key methods used in organic synthesis, showing the value and scope of these methods and how they are used in the synthesis of complex molecules. All the text from the third edition has been revised, to produce a modern account of traditional methods and an up-to-date description of recent advancements in synthetic chemistry since the previous edition. A new chapter on the functionalisation of alkenes has been included and greater emphasis on highly stereoselective reactions and radical chemistry has been placed. Reference style has been improved to include footnotes on each page, allowing easy and rapid access to the primary literature. The book will be of significant interest to chemistry and biochemistry students at advanced undergraduate and graduate level, as well as researchers in academia and industry who wish to familiarise themselves with modern synthetic methods.

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Editorial Review

Review

'... a very good introduction to the methodology of organic synthesis, and should be essential reading for advanced undergraduate courses, and for all postgraduates and others actively involved in organic synthesis.'

Nature

'... the excellent organization and selectivity provides very clear (often outstanding) examples to illustrate not only the principal value of and limitations of the method but also a qualitative comparison with other methods.' Journal of Chemical Education

'... firmly established within the literary repertoire of any self-respecting synthetic organic chemist ... Coldham's style is clear and didactic, getting the message across with minimum of fuss, and this is echoed by the clarity of the diagrams ... serves as a worthy tribute to Carruthers' memory. I am sure that he would be proud of, and flattered by, the care and attention to detail that Iain Coldham has put into this new edition.'

Chemistry & Industry

About the Author

Bill Carruthers was born in 1924 in Glasgow. He won a bursary to Glasgow University, where he graduated with a first class honours degree in 1946 and a PhD in 1949. He moved to Exeter in 1956, working first for the Medical Research Council and then, from 1968, as a Lecturer then Senior Lecturer at the Department of Chemistry, University of Exeter. He died in April 1990, just a few months before he was due to retire.

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Iain Coldham worked with Dr. Carruthers at the University of Exeter, where he became a Senior lecturer in the Chemistry Department. He is now currently Reader at the University of Sheffield and specialises in organic synthesis.

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