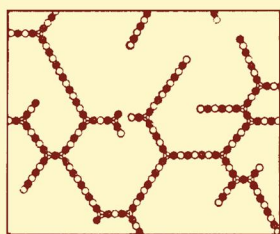


# CS Publications News

## New series of audio cassettes

The Educational Techniques Subject Group of The Chemical Society has published the first three titles in a new series of audio tapes called *Chemistry Cassettes* on which recognised authorities discuss aspects of their subject. The cassettes have been produced under the General Editorship of Peter Groves of the University of Aston and are designed for individual and group study purposes.

MONOGRAPHS  
FOR TEACHERS No. 28



### Some Aspects of Basic Polymer Science

by Dr D. A. Blackadder

The monograph emphasises the polymer molecule — the notion of a long chain has been used to bind together the three main sections. The first concerns procedures for assembling polymer molecules from monomer units. This is followed by a discussion of the configurational and conformational properties of polymer molecules, together with the definition and measurement of molecular weights. Finally aggregates of polymer molecules are classified, and the properties of different kinds of aggregates are interpreted in terms of the underlying structure.

Paperbound 62pp  
8 1/2" x 5 1/2" 12 figures  
£1.20 (CS Members 90p)

Orders to: The Publications Sales Officer, The Chemical Society, Blackhorse Road, Letchworth, Herts. SG6 1HN.

Each cassette is accompanied by a detailed booklet containing diagrams, equations, etc., which can be used by the student as the basis of a comprehensive set of notes.

The first three titles are:

**Heavy Metals as Contaminants of the Human Environment** by Professor Derek Bryce-Smith, *University of Reading*.

A discussion of some of the effects on man arising from the increasing use and distribution of heavy metals, particularly lead, cadmium and mercury.

Running time 100 minutes  
£4.75 (CS Members £3.60)

**Some Aspects of the Electrochemistry of Solutions** by Professor Graham Hills, *University of Southampton*.

Professor Hills considers some general aspects of electrolyte solutions and shows how theoretical models are able to lead to a wider understanding of the nature and properties of such solutions.

Running time 34 minutes  
£3.80 (CS Members £2.85)

**Some Organic Reaction Pathways** by Dr Peter Sykes, *Fellow and Director of Studies, Christ's College, Cambridge*.

Dr Sykes is well known through his book 'A Guidebook to Mechanism in Organic Chemistry'. On this cassette he discusses two important aspects of reaction mechanisms; those relating to elimination and to aromatic substitution.

Running time 68 minutes  
£4.25 (CS Members £3.20)

Additional copies of the booklets may be obtained at 50p each or 10 copies for £4.00.

Orders should be sent to The Publications Sales Officer, The Chemical Society, Blackhorse Road, Letchworth, Herts. SG6 1HN.

SPECIALIST PERIODICAL REPORTS

## Radiochemistry Vol. 2

Senior Reporter: Dr G. W. A. Newton  
*University of Manchester*

The second volume in this biennial series reviews literature published between August 1971 and July 1973 in the areas covered in Volume 1, namely, Solid State Recoil Chemistry, Radiochemistry of Elements with  $Z > 103$  and Radiochemical Methods of Analysis. In addition, this Volume provides coverage of Recoil Chemistry in Gases and Liquids over the period July 1969 — July 1973.

Clothbound 256pp 8 3/4" x 5 1/8" £13.00 (CS Members £9.75)

## Molecular Spectroscopy Vol. 3

Senior Reporters:

Dr R. F. Barrow, *University of Oxford*  
Professor D. A. Long, *University of Bradford*  
Professor D. J. Millen, *University College, London*

In common with previous volumes, this third volume does not attempt comprehensive coverage, but instead provides a detailed and critical analysis of selected topics based on the 1973 and early 1974 literature. The volume covers: Microwave Spectroscopy; Force-constant Calculations in Molecules; Experimental Resonance Raman Spectroscopy; Matrix Isolation; Rotation and Vibration-Rotation Raman and Infra-red Spectra of Gases; Raman Spectra of Solids; The Electronic Spectra of Triatomic Molecules and the Renner-Teller Effect.

Clothbound 603pp 8 3/4" x 5 5/8" £24.00 (CS Members £18.00)

## Surface and Defect Properties of Solids Vol. 4

Senior Reporters:

Professor M. W. Roberts, *University of Bradford*  
Professor J. M. Thomas, *University College of Wales, Aberystwyth*

This fourth volume covers the recent literature up to April 1974 on the following topics: Intrazeolitic Transition-metal Ion Complexes; The Steam Reforming of Hydrocarbons; Auger Electron Spectroscopy and its Applications in Surface Chemistry; The Behaviour of Metal Lattice Vacancies during Oxidation; Crystallographic Shear in Silicate Structures; Transmission Electron Microscopy of Extended Defects in Alkali Halide Crystals.

Clothbound 265pp 8 3/4" x 5 5/8" £14.00 (CS Members £10.50)

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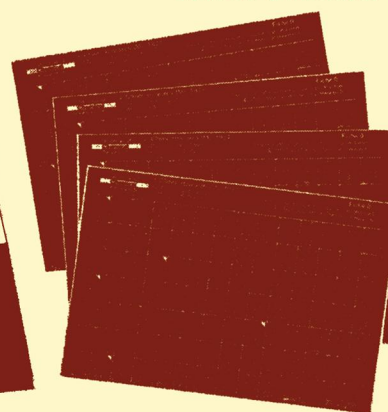
# A new concept in scientific publishing: Journal of Chemical Research



## Miniprint



## Microfiche



Journal of Chemical Research is a new multi-national journal which is being published in synopsis format backed up simultaneously with full texts in two forms – microfiche and miniprint. It was launched in January 1977 by The Chemical Society, Gesellschaft Deutscher Chemiker and Société Chimique de France as the first step towards the development of a more logical system of chemical primary publications.

It covers all kinds of chemistry and appears in two parts: Part S caters for current awareness needs and contains short synopses of papers in an easily browsable form; Part M fulfils the archival role of the journal and

contains the full texts of the papers appearing in Part S in two alternative forms – microfiche and miniprint.

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