

# CS Publications News

Specialist Periodical Reports

## Electron Spin Resonance Vol. 5

Senior Reporter: Professor P. B. Ayscough

This report surveys the literature published during the period November 1976 until June 1978.

### Brief Contents:

Chemically Induced Dynamic Electron Polarization (CIDEP); Theoretical Aspects of ESR; ENDOR and ELDOR; Triplets and Biradicals; Transition-Metal Ions; Inorganic and Organometallic Radicals; Organic Radicals; Structure; Organic Radicals; Kinetics and Mechanisms of their Reactions; Organic Radicals in Solids; Spin Label Studies; Biological and Medical Studies.

Hardcover 391 pp 8 $\frac{3}{4}$ " × 5 $\frac{5}{8}$ " 0 85186 791 X  
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## Inorganic Biochemistry Vol. 1

Senior Reporter: Dr. H. A. O. Hill

The subject has developed dramatically during this decade and it is believed that this volume, which reviews relevant work on the subject published literature published up to late 1977, and those that follow in this new series will ease the burden to inorganic biochemists as they seek to relate their work to fields far beyond the confines of the traditional disciplines.

### Brief Contents:

Inorganic Analogues of Biological Molecules; Inorganic Analogues of Biological Processes; Storage, Transport, and Function of Non-transition Elements; Storage and Transport of Transition-metal Ions; Oxygen-transport Proteins: Part I-Haemoproteins, Part II-Haemocyanin and Haemerythrin; Electron-transport Proteins; Oxidases and Reductases; Metalloenzymes; Inorganic Elements in Biology and Medicine.

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Special Publication No. 36 (1979)

## Chemistry and Agriculture (1979)

This up-to-date account of chemical involvement in agriculture provides not only a panoramic view of progress and problems, but also some detailed chemical and biochemical facets for the specialist. It should have an appeal to many engaged in agriculture, crop protection and food technology, including research workers and students.

### Brief Contents:

The Broad Overview; Current Uses of Pesticides; Factors influencing the Efficiency of Nitrogen Fertilization; The Place of Applied Nitrogen in Crop Production; Essential and Functional Aspects of Trace Elements; Plant Growth Regulators; Protecting Plants from Fungi; Problems and Opportunities in Herbicide Research; Animal Health in the 1980s; Some Uses of Chemicals in Meat Production; Benefits and Hazards; Chemicals in Dairying; Chemistry and Beverages; The Safe Use of Chemicals in Agriculture; Pesticide Safety – An Industry View; Nitrogen Fixation; Effects of Total Energy Considerations on Agriculture by the Year 2020.

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Monographs for Teachers No. 21

## Modern Analytical Methods

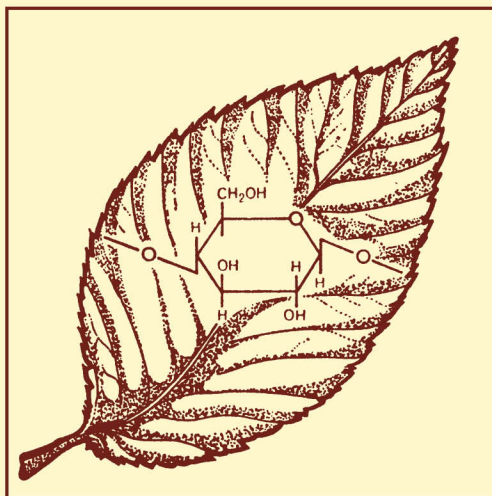
D. Betteridge and H. E. Hallam

Modern Analytical Methods, now reprinted, discusses the principles underlying the most important methods of quantitative and qualitative analysis used today. A unified and comparative approach is made throughout which emphasises the breadth of the subject yet deals in greater detail with the more difficult principles.

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# CS Publications News

Specialist Periodical Report



## Carbohydrate Chemistry Vol. 11

Senior Reporter: Professor J. S. Brimacombe  
*University of Dundee*

This eleventh volume in the series reviews the literature published on the subject between mid-January 1977 and mid-January 1978.

**The contents are split into two parts:**

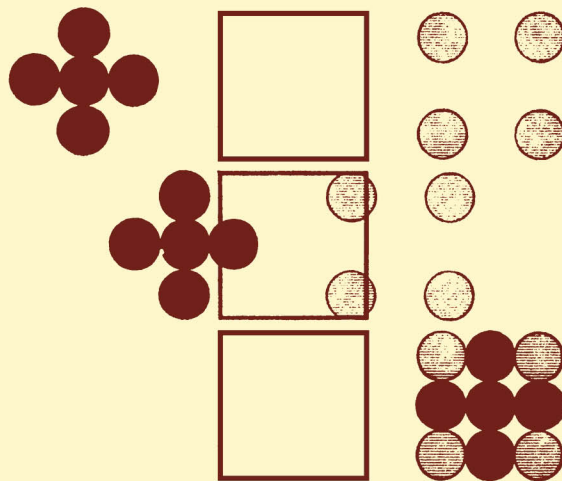
Part I: Mono-, Di-, and Tri-saccharides and their Derivatives;

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Specialist Periodical Report



## Catalysis Vol. 3

Senior Reporters: Professor C. Kemball and  
D. A. Dowden, *University of Edinburgh*

This is the third volume of the series which reviews recent literature in the general field of heterogeneous catalysis and in related areas of homogeneous catalysis. This volume reviews recent literature published on the subject up to late 1978.

**Contents include:**

Catalysis on well-defined Metal Surfaces and Non-metallic substrates; The Steam Reforming of Hydrocarbons; Oxidation over Copper, Silver and Gold Catalysts; High-temperature Oxidation by Metals; The Catalytic Oxidation of Sulphur Dioxide; The Spillover of Chemisorbed Species; Catalysis by Zinc Oxide; Catalysis on Non-faujasitic Zeolites and Other Strongly Acidic Oxides; Polymerization by Carbo-anions and Carbocations;

"... without well-digested articles such as this volume contains, most of us would find it quite impossible to keep up with the literature, even in areas of particular interest to us."—*Chemistry in Britain, reviewing Vol. 2.*

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Printed in Great Britain by Richard Clay (The Chaucer Press), Ltd.,  
Bungay, Suffolk