

# ACS Publications News

## High praise for 'Chemistry and the Needs of Society'

*Chemistry and the Needs of Society* is a paperback book published at the beginning of 1975 which contains the papers presented at the Symposium of the same name held at the Society's 1974 Annual Congress.

The volume brings together a wealth of hard fact and informed opinion on many of the pressing problems facing society today and tomorrow, and on the role of the

chemist in solving these problems.

Since publication many journals have reviewed the book and some of their comments are reprinted below:

"This book will undoubtedly prove useful for those lecturers who are preparing courses on environmental chemistry, and should be set as essential background reading for all chemistry undergraduates. In the present social and intellectual climate it is important to give undergraduates a broader view of the successes and mistakes of the chemical industry. The book is well balanced with major chapters on resources, food supplies, health pollution, chemical materials and economic aspects of chemical innovation."

— D. M. P. Mingos, *The Times Higher Education Supplement*

"This collection of papers forms an encouraging account of the ways in which chemical knowledge is being applied to meet the needs of a changing world. Together, the papers well illustrate the pervasive effects chemical developments have on modern life and form a lucid and stimulating book for general readership."

— *British Book News*

"An important and wide-ranging survey."

— *BMA News*

"A most timely and happily concise work for both scientists and laymen. Strong emphasis is put on the role of chemists and the matters of energy, ecology and economics are given close attention."

— *New Technical Books*

"There is a valuable urgency in many of the chapters and the brief authoritative summaries they provide of the selected topics with which they deal has topical usefulness."

— Magnus Pyke, *The Pharmaceutical Journal*

"The book is a must for every scientist with any sense of social responsibility and

should be given to every Member of Parliament and those whose decisions affect future generations. It is not for the shelf but for reading and action."

— J. S. Clarke, *The Analyst*

*Copies of the Volume can still be obtained from: The Publications Sales Officer, The Chemical Society, Blackhorse Road, Letchworth, Herts SG6 1HN Price £3.00 (CS Members £2.25).*

ANALYTICAL

ABSTRACTS

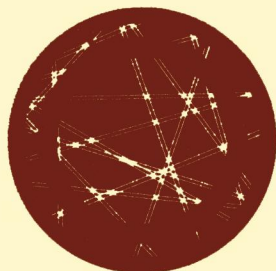
QUINQUENNIAL

INDEX 1964 – 1968

This cumulative index covers 35800 abstracts and has an alphabetical subject index containing almost 100,000 entries.

*Clothbound 9¾" X 6½" two volumes £70.00 (CS Members £60.00)*

ACS ADVANCES  
IN CHEMISTRY



## Fillers and Reinforcements for Plastics

Edited by Rudolph D. Deanin and Nick R. Schott

Polymer chemists have realized most effective achievement of their ingenuity in composite plastics which are as strong as steel, as light as aluminium, and as non-corrosive as some super alloys. Their allies in this endeavour are fillers and reinforcements which range from asbestos to zircon. This volume contains twenty articles which show how these materials are used to improve or impart new properties to an existing polymer.

*Clothbound 224pp  
9¼" X 6¾" 109 figures  
0 8412 0202 8 £7.75*

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

SPECIALIST PERIODICAL REPORTS

## Photochemistry Vol. 6

Senior Reporter: Professor D. Bryce-Smith  
*University of Reading*

This sixth volume in what is now the only annual series providing comprehensive coverage of photochemistry, reviews the literature published between June 1973 and June 1974. As usual there are sections devoted to physical, inorganic, organic, and polymer photochemistry and, in addition, there is a new section devoted to the photochemical aspects of the increasingly important field of solar energy conversion.

"This series has become an established publication and anyone with a research interest in photochemistry, or a desire to remain abreast of developments in this rapidly expanding field, will find these volumes indispensable. There is much to recommend and little to criticise."

— David S. Weiss, *Journal of the American Chemical Society*

*Clothbound 820pp 8¾" X 5½" 0 85 055 9 £27.50  
(CS Members £20.50)*

## Nuclear Magnetic Resonance Vol. 4

Senior Reporter: Dr. R. K. Harris  
*University of East Anglia*

Volume 4 follows the pattern set by previous volumes with the aim of providing critical and in-depth coverage of the phenomenon of n.m.r., over the period June 1973 - May 1974.

"Those familiar with volume 1 will doubtless have been eagerly awaiting this second volume in order to bring themselves up to date with the latest n.m.r. literature. The high standard both in terms of comprehensiveness of the literature coverage and the succinctly critical assessment of the various papers, has been well-maintained in this new volume."

— K. G. Orrell, *Chemistry in Britain*

*Clothbound 370pp 8¾" X 5½" 0 85186 282 9 £15.50  
(CS Members £11.50)*

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



## 'Unobtainable reference books now available in microfiche'

Since its inception in the 1950's the Society's series of *Special Publications* has contained several important compilations of chemical data which have proved to be extremely useful to researchers. These volumes are still in demand but in many cases the original printed copies have all been sold and

the subsequent escalation of the costs of printing render it totally uneconomic to produce further copies in this way. However, high initial capital costs are not needed to produce copies of these publications in microfiche and the Society is therefore making available five of its older *Special Publications* in this format. The microfiche are all 98-frame NMA standard, silver halide positives.

The publications are:

**Tables of Interatomic Distances and Configuration in Molecules and Ions** (Special Publication No. 11)

A compilation of all useful data published up to the end of 1955

4 microfiche £2.80 (plus 22p VAT in U.K.)

**Tables of Interatomic Distances and Configuration in Molecules and Ions: Supplement** (Special Publication No. 18)

A continuation of the above volume covering the period 1956 to 1959

4 microfiche £2.80 (plus 22p VAT in U.K.)

(Still available as a bound book priced at £4.20)

**Stability Constants of Metal-Ion Complexes** (Special Publication No. 17)

A compilation of relevant data up to 1960

8 microfiche £5.60 (plus 45p VAT in U.K.)

**Stability Constants of Metal-Ion Complexes: Supplement No. 1** (Special Publication No. 25)

A continuation of the above volume covering data published up to 1968

10 microfiche £7.00 (plus 56p VAT in U.K.)

(Still available as a bound book priced at £20.00)

In addition to the above reference books the following very successful symposium is also available

**Aromaticity: Sheffield 1966** (Special Publication No. 21)  
3 microfiche £2.10 (plus 17p VAT in U.K.)

Orders, enclosing the appropriate remittance, should be sent to: Dr. I. A. Williams, The Chemical Society, Burlington House, London W1V 0BN.

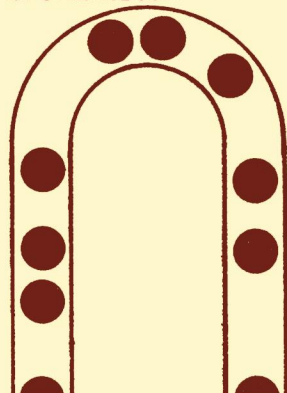
NEW

BOOKS

CATALOGUE

A new catalogue giving full details of all new books to be published by the Society in the period September to December 1975 is available on request from: The Marketing Officer, The Chemical Society, Burlington House, London W1V 0BN.

### ACS ADVANCES IN CHEMISTRY



### CHEMICAL REACTION ENGINEERING-11

Edited by  
HUGH M. HULBURT

Chemical reaction engineering is a continually changing science and art, and today's emphasis is on direct process applications. This volume brings together fifty-one papers in nine sections organised around functional aspects which can appear in many types of reactors. Attention is focused on specific current processes and reaction types.

Contents include: Novel Reactor Types; Kinetics and Mechanisms; Heterogeneous Catalytic Reactors; Physical Processes; Design Models and Optimal Policies of Operation; Process Applications; Stability, Sensitivity, and Transient and Periodic Operation of Reactors; Oxidation Reaction Engineering.

Clothbound 698pp  
9 1/4" x 6 1/4" 373 figures  
£17.50

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

### SPECIALIST PERIODICAL REPORTS

## Aliphatic Chemistry Vol. 3

Senior Reporter: Dr. A. Mckillop  
University of East Anglia

This third volume covers the 1973 literature following a broadly similar format to that adopted for previous volumes.

"1972 was a good year for the development of new synthetic methods in organic chemistry. The second volume admirably illustrates these new methods and their applications. They are clearly and logically presented and copiously illustrated. It is a stimulating source of information and ideas."

— T. L. Gilchrist, *Chemistry in Britain*

The chapter headings are as follows: Acetylenes, Alkanes, Allenes and Olefins; Other Functional Groups; Naturally Occurring Polyolefinic and Polyacetylenic Compounds; Chemistry of the Prostaglandins; Fatty Acids and Related Compounds.

Clothbound 410pp 8 3/4" x 5 5/8" £13.50 (CS Members £10.00)

## Inorganic Chemistry of the Main-group Elements Vol. 2

Senior Reporter: Professor C. C. Addison, FRS  
University of Nottingham

This second volume covers literature published between September 1972 and September 1973 following a similar pattern to that adopted for Volume 1.

"The main problem with such comprehensive reports is to give sufficient information for the reader to be able to make an accurate estimate as to whether the original reference deserves his further attention; to give a clear, readable overall view of the main developments in the field; and to provide the lecturer with useful material to update his general notes. This volume succeeds on all three counts for there are plenty of numerical data interspersed in a good balance of mechanistic, spectroscopic, structural and preparative information."

— M.D. Johnson, *Chemistry and Industry* reviewing Vol. 1

Clothbound 740pp 8 3/4" x 5 5/8" £24.00 (CS Members £18.00)

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