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Ref No 1267

Surfactants Europa - 3rd Edition

Edited by Gordon L. Hollis, Consultant

Surfactants Europa 3rd Edition provides easy access to current product information on surface active agents (surfactants) manufactured and sold in Europe. It contains valuable data on approximately 9,000 trade names from more than 80 companies, including chemical description and composition, general property, application and manufacturer information. The directory is indexed by company and trade names (listed alphabetically) with page references, and provides a very useful listing of manufacturers, with full contact details, including European divisions and agents.

Surfactants Europa 3rd Edition will be an essential reference directory for research and development personnel and laboratory staff in general. It will also be useful for technical departments and purchasing/sales departments, not only in the detergent industry but in the many industries where surfactants are used. The products listed in the directory find applications in a wide variety of branches of the chemical manufacturing industry including detergent and cleaning products, agrochemicals, construction, cosmetics, food, oil, paint, paper, pharmaceuticals, plastics and textiles. The directory is edited by Dr Gordon Hollis, an established consultant in the surfactants field and author of four previous, respected, surfactant directories.

Surfactants Europa 3rd Edition provides details on approximately 9,000 surfactant products from more than 80 manufacturers; trade name information arranged into over 40 chemical class categories; comprehensive coverage of surfactants available in Europe; detailed information on chemical description and composition, general properties, applications, functionality, and manufacturer information; a list of manufacturers with full contact details, including telephone and fax numbers, as well as associate companies and agents. It will allow end-users to identify the most appropriate surfactants for their particular application; aid identification of alternatives within a given chemical class category; give easy access to up-to-date product information via its valuable cross-indexing of trade names and manufacturers; provide a ready source of manufacturers' contact details.

Softcover Approx 450 pages ISBN 0 85404 804 9
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Ref No 1283

A History of the Faraday Society

By Leslie Sutton and Mansel Davies

The Faraday Society was founded around the close of the 19th century and it is fitting that this history should be published around the close of the 20th century, the same year in which the 100th Faraday Discussion is being celebrated. It is a time for looking back, as well as to the future.

This book forms a unique record of the creation and evolution of one of the most important scientific societies in the UK and charts its major contribution to the promotion of free debate and dissemination of new scientific knowledge in this key subject area, which is at the interface between chemistry, physics and biology.

The two authors write from the informed perspective of scientists who were important participants in the evolution of physical chemistry, who were personally involved with Faraday matters, and who had great insight into the factors which affected the policies, decisions, and affairs of the society, and the personalities involved.

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Ref No 1256

Universities and Industrial Research

By Ewald Konecny,
Medical University of Lübeck, Germany.
Colin Quinn,
Formerly Shell Research Ltd, UK
Kurt Sachs,
Consultant, Stourbridge, UK.
David Thompson,
Consulting Chemist, Reading, UK.

Universities and Industrial Research is concerned with the interactions between universities and the research and development departments of industry. This is a subject of particular importance as in recent years governments have encouraged closer collaboration, with the aim of strengthening the technology base, stimulating wealth creation, and generating a financial return for universities.

The book is based on a key European Industrial Research Management Association (EIRMA) report, which resulted from discussions between industrial research managers from seven European countries. The information it contained has been thoroughly updated and expanded, to include entirely new information, practical examples, and some coverage of Japan and North America.

The book explains how experienced industrial R & D managers view interactions with universities, illustrates university objectives that relate to commerce, identifies industrial goals that can be assisted by universities, and seeks to stimulate the mobilization of collaborative activities for the benefit of all.

Universities and Industrial Research is written specifically from the industrial researcher's point of view, giving those in industry a thorough understanding of this topic and those in academia a valuable insight into the operations of industrial R & D departments. The book is applicable to the physical, chemical and biological sciences, engineering, and mathematics, and with its emphasis on realism in aspirations will greatly benefit heads of research in universities, research managers in industry, and those in interested government agencies.

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Ref No 1233

Packed Column SFC

By T. A. Berger, *Hewlett Packard, Wilmington, Delaware, USA*

Packed Column SFC is the third title to be published in this series and has been produced as a result of the dramatic re-emergence, in the last three years, of packed column instrumentation. This has led to a redefinition of the technique and an urgent need for a practical guide that deals with its subtleties.

This book fulfils that need and deals exclusively with packed column SFC. It places the emphasis on understanding the underlying chemistry in order to perform rapid, systematic optimizations and provides many practical tips to help the new user avoid problems unique to SFC. It also proposes a detailed scheme for method development and provides lists of prioritized guidelines.

The book clears up some of the confusion that surrounds the analytical use of supercritical fluids and assists the user in understanding the power and utility of this technique. Detailed chapters cover the most promising new application areas for packed column SFC, which are often overlooked in the mainstream chromatography literature.

Hardcover Approx 280 pages ISBN 0 85404 500 7
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Ref No 1258

Computing Applications in Molecular Spectroscopy

Edited by W. O. George, *University of Glamorgan*
D. Steele, *University of London*

This book brings together several branches of molecular spectroscopy and a range of applications of modern computer methods, particularly those dependent on data handling and information technology, to address problems that have become more accessible through increasing computer power. It follows on from an earlier RSC publication entitled 'Computer Methods in UV, Visible and IR Spectroscopy', published in 1990, and brings the subject up to date.

Computing Applications in Molecular Spectroscopy is written by leading experts in the field and provides coherent and progressive coverage of the topic. It fulfils a need for systematic presentation of the facts, where the information generally available is highly fragmented, and also provides examples of the use of computer power to improve the understanding of basic theory. Interest in interfacing computing and spectroscopy is wide, spanning industry, government and academia the world over.

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Ref No 1251

Guidelines for Achieving Quality in Trace Analysis

Co-ordinating Editors Mike Sargent and Graham Mackay
Laboratory of the Government Chemist

This guide derives from an extensive Government-funded project that has addressed generic aspects of improving the quality of trace analysis measurements. Central to this initiative has been the development of a concise protocol that will act as a check list of key issues for those involved in carrying out trace analysis, or who rely on the results.

Guidelines for Achieving Quality in Trace Analysis gives a concise summary of the requirements for obtaining reliable trace analysis data, including both the scientific problems relating to trace analysis and all the relevant quality assurance issues. The protocol text is highlighted for clarity and presented with additional information which amplifies and explains its requirements. Also included are examples and an extensive glossary of the technical terms used. This book is applicable to laboratories where accreditation or certified quality systems are already in place, where it is intended to seek compliance with an externally audited scheme, or where there is simply a need to adopt a more systematic approach to laboratory quality assurance.

Guidelines for Achieving Quality in Trace Analysis combines the expertise of industrial, public sector and academic specialists and provides authoritative advice which is applicable to all areas of trace analysis. It will benefit analysts at all levels, as well as quality assessors, managers, those who purchase or rely on trace analysis data, students and teachers.

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Frontiers in Analytical Spectroscopy

Edited by D. L. Andrews, *University of East Anglia*
A. M. C. Davies, *Norwich Near Infrared Consultancy*

Frontiers in Analytical Spectroscopy presents a topical review of the wide range of spectroscopic techniques developed and employed in recent years. It exhibits the links between a great variety of spectroscopic methods, some aspects of which can be overlooked by practitioners. In so doing it will prompt new ideas and suggest opportunities to scientists using these techniques.

Unlike most other books in this area, **Frontiers in Analytical Spectroscopy** embraces all techniques ranging from the spectroscopic imaging of polyethylene to the use of mass spectrometry on spacecraft. The book is pitched at a level that will suit specialists in any area of spectroscopy and provides a 'bird's-eye' view of the frontiers that are currently being explored. **Frontiers in Analytical Spectroscopy** will benefit all graduates and researchers with interests in spectroscopy, whether in industry or academia. Librarians will find this a much sought-after title.

Special Publication No. 163 **Hardcover** **viii + 248 pages**
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Ref No 111

Nuclear Magnetic Resonance - Volume 24

Senior Reporter G.A. Webb, *University of Surrey*

Nuclear Magnetic Resonance Volume 24 provides a review of the literature published between June 1993 and May 1994.

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Journal of the American Chemical Society, Volume 114
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Chemometrics in Analytical Spectroscopy

By Mike J. Adams, *University of Wolverhampton*

Chemometrics in Analytical Spectroscopy provides students and practising analysts with a tutorial guide to the use and application of the more commonly encountered techniques used in processing and interpreting analytical spectroscopic data.

In detail the book covers the basic elements of univariate and multivariate data analysis, the acquisition of digital data and signal enhancement by filtering and smoothing, feature selection and extraction, pattern recognition, exploratory data analysis by clustering, and common algorithms in use for multivariate calibration techniques. An appendix is included which serves as an introduction or refresher in matrix algebra.

The extensive use of worked examples throughout gives **Chemometrics in Analytical Spectroscopy** special relevance in teaching and introducing chemometrics to undergraduates and post-graduates undertaking analytical science courses. It assumes only a very moderate level of mathematics, making the material far more accessible than other publications on chemometrics. The book is also ideal for analysts with little specialist background in statistics or mathematical methods, who wish to appreciate the wealth of material published in chemometrics.

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