

Книги на английском языке

PROFICIENCY TESTING IN ANALYTICAL CHEMISTRY

By R.E. Lawn, *LGC, UK*, M. Thomson, *Birkbeck College, UK* & R.F. Walker, *LGC, UK*

This title deals exclusively and comprehensively with the role of proficiency testing in the quality assurance of analytical data. The book covers in detail proficiency testing schemes from the perspective scheme organisers, participant laboratories and the ultimate end-users of analytical data. A wide variety of topics are addressed including the organisation, effectiveness, applicability, and cost and benefits of proficiency testing. Procedures for the evaluation and interpretation of laboratory proficiency and the relation proficiency testing to other quality assurance measures are also discussed. This book is an important addition to the literature on proficiency testing and is essential reading for practising analytical chemists and all organisations and individuals with an interest in the quality of analytical data.

Softcover book 1997 ISBN 0 85404 432 9
xii + 110 pages £25.00

TRACE ANALYSIS: A Structured Approach to Obtaining Reliable Results

Edited by E. Prichard with G. MacKay & J. Points, *LGC, UK*

This is a highly practical and systematic book which deals with the science rather than the paperwork of quality system. It is structured in such a way that it takes the analyst step by step through the stages of any trace analysis, dealing with all the issues which are relevant from the time the sample reaches the laboratory to the reporting of the results. It is unique in the generality of its approach, being broken down only into main areas (types of analyte), and in addition there are chapters on the application of groups of technique to each analyte type, including quality assurance issues.

This book offers invaluable advice to analyst in all areas and at all levels, providing 'expert' advice on methodology. It will prove indispensable as a single, comprehensive bench guide for analysts in university, college and industrial laboratories.



Hardcover book 1996 ISBN 0 85404 417 5
xiv + 404 pages £69.50

INTERNATIONAL GUIDE TO QUALITY IN ANALYTICAL CHEMISTRY: An Aid to Accreditation

(A CITAC* document, published by LGC with the support of VAM)

The value of chemical analysis depends on the degree of confidence that can be placed on the results. Increasingly, the chemical testing community is adopting quality assurance principles which, whilst not actually guaranteeing the quality of the data produced by an international group of experts, aims to provide laboratories with guidance on best practice for improving the quality of the analytical operations they carry out. The guidance covers both qualitative and quantitative analysis carried out on a routine or non-routine basis, and throughout it is cross references to the related parts of ISO Guide 25, ISO 9000 and OECD GLP Principles.

* *Cooperation on International Traceability in Analytical Chemistry.*

Softcover book 1996 ISBN 0 948 92 609 0
51 pages £30.50

GUIDELINES FOR ACHIEVING QUALITY IN TRACE ANALYSIS

Co-ordinating Editors M. Sargent & G. MacKay, *LGC, UK*

This guide presents a concise protocol that acts as a check list of key issues for those involved in carrying out trace analysis, or who rely on the results. The text of this protocol 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. The 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, students and teachers.

Softcover book 1995 ISBN 0 85404 402 7
xiii + 48 pages £15.50

**AEROSOL PARTICLE SIZE
ANALYSIS:
Good Calibration Practices**

**By W.D.Griffiths, D.Mark, I. A.Marshall &
A.L.Nichols,
AEA Technology Consultancy Service,
Harwell, UK**

Particle size analysis is extremely important in the characterization of aerosol ensembles. The transport of such particles and droplets is determined by a combination of factors, of which a knowledge of the size and distribution is particularly important. Hence equipment used to measure particle and droplet diameters and size distribution needs to be operated with competence and confidence. This manual of good calibration practices has, therefore, been prepared, with guidance from the National Calibration Forum for Aerosol Analysis (NCFAA). **Aerosol Particle Size Analysis** provides a starting document to aid non – specialists in their understanding, valid operation and calibration of aerosol particle – size analyses, so that the various types of equipment are used correctly and traceable quantitative data can be obtained with confidence.

Hardcover book 1998 ISBN 0 85404 452 3
x + 116 pages £ 45.00

AEROSOL SAMPLING GUIDELINES

**Coordinating editor A. L. Nichols,
AEA Technology Consultancy Service,
Harwell, UK**

Aerosol Sampling Guidelines brings together a selection of practical guidelines for the sampling of aerosol. Based on the conclusions of a comprehensive survey of industrial needs in aerosol measurement carried out 1994, it covers five topics chosen as being representative of those where gaps in guidance were considered most visible. Each guideline is written in a concise and easy-to-read style, and each combines a brief explanation of the underlying scientific together with practical advice, which

will make this book invaluable to workers in industry who do not have specialist knowledge of aerosol behaviour and sampling.

Hardcover book 1998 ISBN 0 85404 457 4
x + 170 pages £ 59.50

**ANALYTICAL MOLECULAR BIOLOGY
Quality and Validation**

**Edited by G. C. Saunders & H. C. Parkes
LGC, UK**

DNA technology is revolutionising the way in which healthcare, pharmaceutical production, diagnostics, agriculture, animal husbandry, food, pollution abatement, archaeology, forensic analysis, and many other industrial and regulatory sectors operate. Analytical molecular biology has been typically developed in the academic and medical research environments. Here, the general excitement of at last being able to measure what has never been possible before, has led to priorities lying with innovation, rather than consideration being given to the more routine applicability, reliability and reproducibility of the methods employed. There is a need then, to evaluate these factors. Further validation of the methods is necessary before the successful transition from research laboratory to analytical laboratory can be made. **Analytical Molecular Biology: Quality and Validation**, addresses these issues, providing guidelines to ease the transition.

Softcover book ISBN 0 85404 472 8
x + 200 pages £ 49.50 approx.
Due Autumn 1998

**QUALITATIVE ANALYSIS
A Guide to Best Practice**

**By W. A. Hardcastle
LGC, UK**

This Guide is concerned with the practice of qualitative analysis and contains invaluable advice for laboratories undertaking such work. It is designed to assist laboratories in establishing and maintaining a working regime that will minimise the risk of error and maximise the quality of the analytical information they produce. It is aimed primarily at laboratory managers and those responsible for any part of the analysis process from designing qualitative tests or deciding which tests to apply in particular cases to those performing the requisite experimental work.



Qualitative Analysis has been developed using the knowledge and experience of an advisory panel drawn from a representative cross – section of practising analytical scientists. It will be a useful guide for laboratory staff, government agencies, researchers and professionals in industry and academia alike.

Softcover book 1998 ISBN 0 85404 462 0
vii + 24 pages £ 9.50 approx.

PRACTICAL STATISTICS FOR THE ANALYTICAL SCIENTIST: A Bench Guide

By T. J. Farrant *LGC, UK*

Analytical chemists must use a range of statistical tools in their treatment of experimental data to obtain reliable result. *Practical Statistics for the Analytical Scientist* is a manual designed to help them negotiate the daunting specialist terminology and symbols. This volume covers the basic statistics needed in the laboratory. It describes the statistical procedures that are most likely to be required including summary and descriptive statistical, calibration, outlier testing, analysis of variance and basic quality control procedures. To improve understanding, many examples provide the user with material for consolidation and practice. The fully worked answers are given both to check the correct application of the procedures and to provide a template for future problems.

Practical Statistics for the Analytical Scientist will be welcomed by practising analytical chemists as an important reference for day to day statistics in analytical chemists.

Softcover book 1997 ISBN 0 85404 442 6
x + 98 pages £ 22.50 approx.

STATISTICS SOFTWARE QUALIFICATION: Reference Data Sets

Edited by B.P. Butler & M.G. Cox
National Physical Lab., UK
S.L.R. Ellison & W. A. Hardcastle *LGC, UK*

What is the best way for practising analysts to assess the fitness for purpose of their statistics processing routines? This book provides reference data sets which will form an essential tool for the validation of the major post – analysis computational processes in analytical chemistry.

Statistics Software Qualification will enable readers to test implementations of many of the important algorithms used in statistics and chemometrics. The quality of the results returned by these algorithms can vary widely. As the use of automated instruments in analysis increases, the need to detect possible deficiencies in software has become vital. This timely book provides the reader with a tool to bring a crucial part of his data analysis under the control of a quality assurance programme.

The book presents a general method for generating test data, describes a step-by-step testing methodology with worked examples, and includes over 170 data sets for testing the most important statistical procedures. It also discusses the main algorithms in common use, their strengths and weaknesses, and methods of overcoming poor performance in existing software. All the data sets described in the book are also provided on disk.

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xviii + 324 pages £ 99.50 approx.

GENERAL PRINCIPLES OF GOOD SAMPLING PRACTICE

NT Crosby & Patel

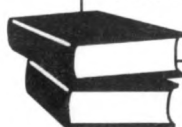
A welcome reference for researchers and professionals who need to access the important information on how to sample, in the form of an instant, thorough and reliable guide.

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