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*Quantitative
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The Encyclopedia of Measurement and

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Statistics presents state-of-the-art information and ready-to-use facts from the fields of measurement and statistics in an unintimidating style. The ideas and tools contained in these pages are approachable and can be invaluable for understanding our very technical world

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and the increasing flow of information. Although there are references that cover statistics and assessment in depth, none provides as comprehensive a resource in as focused and accessible a manner as the three volumes of this Encyclopedia. Through approximately 500

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contributions, experts provide an overview and an explanation of the major topics in these two areas.

Analytical chemistry is a branch of chemistry that determines the nature and identity of a substance and its composition. Analytical methods are

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ability to provide timely, accurate, and reliable data is central to the discovery, development, and manufacture of pharmaceuticals. The developed assay method was found to be simple, accurate, sensitive, precised, specific and rapid. This method can be applied for

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*routine quantitative analysis of
Paracetamol and Lornoxicam in
pharmaceutical formulations like Tablet
dosage form."*

*Thin Layer Chromatography in Drug
Analysis* CRC Press

Electrochemical Detection in HPLC:

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Analysis of Drugs and Poisons is the first monograph devoted to the application of this mode of analysis to the assay of exogenous compounds such as drugs in biological fluids and associated areas. The introductory chapters provide information on basic

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electrochemistry and HPLC-ED, and on trouble-shooting. The specialized area of thiol analysis is also discussed in detail. Salient practical details of published applications of the technique in analytical toxicology and related areas are provided in a standard format.

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Alternative techniques are suggested throughout. The emphasis is on the analysis of exogenous compounds, although catecholamines and other endogenous species are discussed in so far as they may be used as drugs. The practical nature of this book will make it

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useful to professionals working in the field. It will also be of benefit to analysts wishing to use HPLC-ED in the analysis of biological samples for analytes not specifically covered in the volume.

Paracetamol (Acetaminophen)

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*Tietz Textbook of Laboratory Medicine -
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*Drug Level Monitoring, Analytical
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**This volume is an
important advancement in
the application
of pharmacokinetic (PK)
and pharmacodynamic (PO)**

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**principles to . drug
development. The series
of topics presented deal
with the application of
these tools to everyday
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pharmaceutical scientist**

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encounters. The ability to integrate these topics using PK and PO methods has optimized drug development pathways in the clinic. New technologies in the

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**areas of in vitro assays
that are more predictive
of human absorption and
metabolism and
advancement in
bioanalytical assays are
leading the way to**

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**minimize drug failures
in later, more expensive
clinical development
programs. of
Pharmacokinetics and
pharmacodynamics have
become an important**

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**component understanding
the drug action on the
body and is becoming
increasingly important
in drug labeling due to
it's potential for
predicting drug behavior**

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in populations that may be difficult to study in adequate numbers during drug development. The ability to correlate drug exposure to effect and model it during the

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**drug development value
chain provides valuable
insight into optimizing
the next steps to derive
maximum information from
each study. These
principles and modeling**

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**techniques have resulted
in an expanded and
integrated view of PK
and PD and have led to
the expectations that we
may be able to optimally
design clinical trials**

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**and eventually lead us
to identifying the
optimal therapy for the
patient, while
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speeding up drug
development. There is**

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book both as a text and
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principles of drug
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**to drug level monitoring
in determining optimal
individual drug doses in
clinical settings.**

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polymers, blood, and**

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paracetamol.

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Reactions**

**Applications of High
Performance Liquid
Chromatography
Thin Layer**

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Chromatography in Drug Analysis

Paracetamol

**Metabolic Activation of
Drugs and Other**

Xenobiotics in

Hepatocellular Carcinoma

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'The metabolic activation of many drugs and xenobiotics in vivo is effected through the large family of cytochrome P450s enzymes that catalyse a diverse spectrum of

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reactions including the metabolism of both endogenous and exogenous compounds. There is considerable evidence suggesting that changes in P450 activities can affect

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the in vivo toxicity of drugs in both animals and humans. Oxidative metabolism by cytochrome P450 enzymes has been implicated in the pathogenesis of cancer,

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through the formation of toxic intermediates and carcinogenic metabolites are formed from drugs and xenobiotics. A marked overall increase in the metabolic activation of the

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commonly used analgesic agent, paracetamol, was found in patients with hepatocellular carcinoma, as indicated by a much higher percentage recovery of the oxidative

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metabolites cysteine and mercapturate conjugates, compared to healthy controls and patients with chronic hepatitis B infection. It was through that metabolic activation of

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some drugs and xenobiotics through the actions of specific cytochrome P450s may be enhanced in patients with hepatocellular carcinoma. Use THE definitive

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timely, and efficient manner; provides expertise in managing clinical laboratory needs; and shows how to be responsive to an ever-changing environment.

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applications of separation
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part, devoted to forensic toxicology, contains reviews on forensic relevant groups of compounds, like: Opiate agonists, cocaine, amphetamines,

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**hallucinogens,
cannabinoids, sedatives
and hypnotics,
antidepressive and
antipsychotic drugs,
analgesics, antidiabetics,
muscle relaxants, and**

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mushroom toxins. In these parts, the preliminary immunochemical tests were also included, together with separation methods. Screening procedures used in forensic toxicology were

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presented in separate chapters on forensic screening with GC, GC-MS, HPLC, LC-MS, CE, and LC-ICP-MS. In the part on actual and emerging problems of forensic

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toxicology, following chapters were included: Analytical markers of alcohol abuse, toxicological aspects of herbal remedies, drugs and driving, analysis in alternative matrices,

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**doping analysis,
pharmacogenomics in
forensic toxicology, and
quality assurance. The
second part presents
application of separation
methods in forensic**

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chemistry, and comprises chapters on: Explosives, chemical warfare agents, arson analysis, and writing media. Third part on forensic identification contains chapter on

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**Related Methodology
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Paracetamol is one of the most

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widely used pain killers in the world. Research on this drug continues, particularly in the fields of toxicology (liver toxicity in particular), mechanisms of action, adverse reactions and overdose poisoning. Laurie Prescott has

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brought together recent findings in these, and other areas, to produce a comprehensive, updated benchmark volume on paracetamol. Pharmaceutical scientists, clinicians, toxicologists, pharmacists, medicinal chemists,

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biochemists and drug regulation authorities should welcome this information on paracetamol.

Chemometrics is the application of mathematics and statistics to chemical data in order to design or select optimal experimental

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procedures, to provide maximum relevant information, and to obtain knowledge about systems under study. This chemical discipline has constantly developed to become a mature field of Analytical Chemistry after its inception in the

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1970s. The utility and versatility of chemometric techniques enable spectroscopists to perform multidimensional classification and/or calibration of spectral data that make identification and quantification of analytes in

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complex mixtures

possible. Wavelets are mathematical functions that cut up data into different frequency components, and then study each component with a resolution matched to its scale. They are now

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being adapted for a vast number of signal processing due to their unprecedented success in terms of asymptotic optimality, spatial adaptivity and computational efficiency. In analytical chemistry, they have increasingly shown great

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applicability and have been preferred over existing signal processing algorithms in noise removal, resolution enhancement, data compression and chemometrics modeling in chemical studies. The aim of this

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Research Topic is to present state-of-the-art applications of chemometrics, in the field of spectroscopy, with special attention to the use of wavelet transform. Both reviews and original research articles on

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*Used routinely in drug
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In recent years Genetic Algorithms (GA) and Artificial Neural Networks (ANN) have progressively increased in importance amongst the techniques routinely used in chemometrics. This book contains contributions from experts in the

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field is divided in two sections (GA and ANN). In each part, tutorial chapters are included in which the theoretical bases of each technique are expertly (but simply) described. These are followed by application chapters in which special emphasis will be given to

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the advantages of the application of GA or ANN to that specific problem, compared to classical techniques, and to the risks connected with its misuse. This book is of use to all those who are using or are interested in GA and ANN. Beginners can focus their

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(GA) and Artificial Neural Networks (ANN) with the classical techniques Suitable for both beginners and advanced researchers

The use of real or near real time measurement of chemical production process parameters as

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the basis for achieving control or optimisation of a manufacturing process has wide application in the petrochemical, food and chemical industries. Process analytical chemistry (PAC), or process analytical technology (PAT) as it has recently been called, is now

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being deployed in the pharmaceutical industry, where it is seen as a technology that can help companies to improve their conformity with manufacturing compliance regulations. The objective of this book is to provide a starting point for implementing

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process analytical chemistry tools in process monitoring applications or as part of a total quality management system. Written from the perspective of the spectroscopist required to implant PAT tools in a process environment, attention is focussed

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on measurements that are made "in process" at-line or off-line, providing data on product during manufacture. With chapters covering the key spectroscopic tools, their applications in the pharmaceutical and chemical industries and basic chemometrics,

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the novice can quickly develop a sound understanding of the most practical technologies and applications. Implementation strategies are fully covered and address some of the critical issues that need to be tackled when setting up a PAT project –

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including choosing a project with a sound business justification in the first place.

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Instrumentation for SFC; Detection
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Development; Chiral SFC Method
Development; and Preparative
Scale SFC. The book also includes

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highlights of modern applications of SFC in the final chapters—namely pharmaceuticals, consumer products, foods, polymers, petroleum-related mixtures, and cannabis—and discusses the future of SFC. Provides a clear explanation of the

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physical and chemical properties of supercritical fluids, which gives the reader a better understanding of the basis for improved performance in SFC compared to HPLC and GC Describes the advantages of SFC as a green alternative to HPLC and GC for the

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analysis of both polar, water-soluble, and non-polar analytes
Details both achiral and chiral SFC
method development, including
modifiers, additives, the impact of
temperature and pressure, and
stationary phase choices
Details why SFC is the premier modern

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preparative chromatographic technique used to purify components of mixtures for subsequent uses, both from performance and economic perspectives Covers numerous detectors, with an emphasis on SFC-MS, SFC-UV, and SFC-ELSD

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(evaporative light scattering
detection) Describes the
application of SFC to numerous
high-value application areas
Modern Supercritical Fluid
Chromatography: Carbon Dioxide
Containing Mobile Phases will be
of great interest to professionals,

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students, and professors involved in analytical, bioanalytical, separations science, medicinal, petroleum, and environmental chemistries. It will also appeal to pharmaceutical scientists, natural-product scientists, food and consumer-products scientists,

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chemical engineers, and managers
in these areas.

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*For drugs with a narrow
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management. Although immunoassays are commercially available for many drugs and most laboratories use these assays for routine therapeutic monitoring, they have many limitations which hinder their

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*efficacy. Providing practical
guidelines for imp*

*Over the last decade, high
performance Capillary
electrophoresis (HPCE) has
emerged as a powerful and
versatile separation technique*

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that promises to rival high performance liquid chromatography when applied to the separation of both charged and neutral species. The high speed and high separation efficiency which can be attained

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using any of the various modes of HPCE has resulted in the increased use of the technique in a range of analytical environments. The procedures are, however, still in the early stages of development and

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several barriers remain to their adoption as the technique of choice for a range of analytical problems. One such barrier is the selection and optimization of the conditions required to achieve reproducible separations of

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analytes and it is in this area that this new book seeks to give assistance. The book is written by an international team of authors, drawn from both academic and industrial users, and the manufacturers of

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instruments. At its heart are a number of tables, divided into specific application areas. These give details of published separations of a wide range of archetypal analytes, the successful separation conditions

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and the matrix in which they were presented. These tables are based on separations reported since 1992 and are fully referenced to the original literature. The tables are supported by discussions of the

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problems that a particular area presents and the strategies and solutions adopted to overcome them. The general areas covered are biochemistry, pharmaceutical science, bioscience, ion analysis, food analysis and environmental

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pharmacology and environmental science, and suggests specific approaches for the spectrophotomagnetic determination of particular analytes.

The octanol-water partition

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coefficient is a laboratory-measured property of a substance. It provides a thermodynamic measure of the tendency of the substance to prefer a non-aqueous or oily milieu rather than water (i.e. its

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hydrophilic/lipophilic balance). Partition coefficients are used extensively in medicinal chemistry, drug design, ecotoxicology and environmental chemistry. The partition coefficient is recognized by

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governmental and international agencies (U.S. Environmental Protection Agency, OECD) as a physical property of organic pollutants equal in importance to vapour pressure, water solubility and toxicity. Octanol-Water

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Partition Coefficients is a comprehensive and up-to-date survey of the thermodynamics of partitioning and of the octanol-water pair. In addition, all current methods of measurement are reviewed, strengths and

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weaknesses are noted and recommendations for particular applications are given. Current methods of calculation of partition coefficients are similarly surveyed and described. Five of the most popular computerized methods

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are tested for predictive accuracy for drugs, pollutants, aminoacids, etc. The book will be of interest not only to solution chemists, but to any chemists who use partition coefficients. It provides a thorough understanding of the

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*fundamentals and offers clear
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Throughout most of history, medicinal plants and their active metabolites have represented a valuable source of compounds used to prevent and to cure several diseases. Interest in natural compounds is still high as they represent

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A rapidly growing field, vibrational spectroscopy has found applications in industries including pharmaceutical manufacture, food and drug safety,

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and process monitoring on production lines. In particular, interest in clinical spectroscopy is rising rapidly as researchers recognize the potential of the vibrational spectroscopic techniques—Infrared (IR) and Raman Spectroscopy—as noninvasive tissue diagnosis tools. However, the details

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of the characteristic peak frequencies and their relationship to specific functional groups present in the biological tissues have not been fully understood. Vibrational Spectroscopy for Tissue Analysis introduces IR and Raman Spectroscopy to those scientists who are either using these

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spectroscopic techniques to address clinical problems or planning to use spectroscopy to analyze clinical tissues and understand their chemical composition. By compiling the interpretations and understandings of the spectral peaks of the biological molecules in one place, this book aids

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in the understanding of IR and Raman Spectroscopy, and what these techniques can offer both in early diagnosis of the disease and monitoring of the progression of the disease. Despite the tremendous advances in the field of spectroscopy, where new applications are emerging

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at the pace of development, there are still areas of research that are crying for further exploration. This book bridges the gap between the spectroscopic research and medical applications.

The Analysis of Drugs in Biological Fluids

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