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This unique and

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comprehensive book covers
all the recent physical,
chemical, and mechanical
advancements in
encapsulation
nanotechnologies.

Encapsulation is prevalent in

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the evolutionary processes of nature, where nature protects the materials from the environment by engulfing them in a suitable shell. These natural processes are well known and have been adopted

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and applied in the pharmaceutical, food, agricultural, and cosmetics industries. In recent years, because of the increased understanding of the material properties and behaviors at

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nanoscale, research in the encapsulation field has also moved to the generation of nanocapsules, nanocontainers, and other nano devices. One such example is the generation of

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self-healing nanocontainers holding corrosion inhibitors that can be used in anti-corrosion coatings. The processes used to generate such capsules have also undergone significant

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developments. Various technologies based on chemical, physical, and physico-chemical synthesis methods have been developed and applied successfully to generate encapsulated

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materials. Because of the increasing potential and value of the new nanotechnologies and products being used in a large number of commercial processes, the need for compiling one comprehensive

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volume comprising the recent technological advancements is also correspondingly timely and significant. This volume not only introduces the subject of encapsulation and nanotechnologies to scientists

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new to the field, but also serves as a reference for experts already working in this area. Encapsulation Nanotechnologies details in part: The copper encapsulation of carbon

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nanotubes Various aspects of
the application of fluid-bed
technology for the coating and
encapsulation processes The
use of the electrospinning
technique for encapsulation
The concept of

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microencapsulation by
interfacial polymerization
Overviews of encapsulation
technologies for organic thin-
film transistors (OTFTs),
polymer capsule technology,
the use of supercritical fluids

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(such as carbon dioxide), iCVD
process for large-scale
applications in hybrid gas
barriers Readership
Encapsulation

Nanotechnologies of prime
interest to a wide range of

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materials scientists and engineers, both in industry and academia.

Modern Sample Preparation for Chromatography, Second Edition explains the principles of sample preparation for

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chromatographic analysis. A variety of procedures are applied to make real-world samples amenable for chromatographic analysis and to improve results. This book's authors discuss each

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procedure's advantages, disadvantages and their applicability to different types of samples, along with their fit for different types of chromatographic analysis. The book contains numerous

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literature references and
examples of sample
preparation for different
matrices and new sections on
green approaches in sample
preparation, progress in
automation of sample

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preparation, non-conventional solvents for LLE (ionic liquids, deep eutectic mixtures, and others), and more. Presents numerous techniques applied for sample preparation for chromatographic analysis

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Provides an up-to-date source of information regarding the progress made in sample preparation for chromatography Describes examples for specific types of matrices, providing a guide for

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choosing the appropriate
sample preparation method for
a given analysis

Quality management (QM)
practices are the basis for the
successful implementation
and maintenance of any QM

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system. Quality control (QC) is identified as a QM component. Therefore, QM effectiveness is dependent on the QC strategy. QC practice is more or less complex depending on the type of production. The book

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is focused on new trends and developments in QM and QC in several types of industries from a worldwide perspective. Its content has been organized into two sections and seven chapters written by well-

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recognized researchers worldwide. Several approaches are debated based on sample traceability, analytical method validation, required parameters, class of exponential regression-type

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estimators of the population means, determination of impurities, viewpoints, and case studies.

This books provides a compendium of electrospinning strategies and

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related technologies for the production of biomaterials for tissue engineering and regenerative medicine applications. It gives a broad overview of the field as well as cutting-edge research on

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electrospinning and how it is applied to engineer biomaterials. This is an ideal book for biomaterials scientists, engineers, students, and researchers. This book also: Presents

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cutting-edge research
performed in the area of
electrospinning with
applications in tissue
engineering and regenerative
medicine Provides readers
from the biomaterials field as

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well as those new to the field with a broad overview of the multiple applications of electrospun biomaterials Summarizes the latest research from the past ten years on electrospinning and

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related technologies

New Trends and

Developments

ICH Quality Guidelines

Green Electrosinning

Nano- and Microencapsulation

Volume Three, Liquid

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Products

Strategies for Identification
and Control

*Sample preparation is applied to
make real world samples
amenable for chromatographic
analysis, or to improve the results*

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of this type of analysis. A wide variety of procedures are applied for this purpose, and their description is the main goal of the present book. The principles of these procedures are explained, discussing their advantages and

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disadvantages, and their applicability to different types of samples as well as their fit for different types of chromatographic analysis. This provides a guide for choosing the appropriate sample preparation for a given analysis.

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The book also contains numerous literature references and examples of sample preparation for different matrices. The material is presented in three parts, one discussing physical methods used in sample preparation such as

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filtration, distillation, solvent extraction, solid phase extraction, electro-separations. Presents in a systematic way numerous techniques applied for sample preparation for chromatographic analysis Provides an up to date

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source of information regarding the progress made in sample preparation for chromatography Describes examples for specific type of matrices, providing a guide for choosing the appropriate sample preparation method for a

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given analysis

*Green Extraction Techniques:
Principles, Advances and
Applications, Volume 76, the first
work to compile all the multiple
green extraction techniques and
applications currently available,*

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provides the most recent analytical advances in the main green extraction techniques. This new release includes a variety of comprehensively presented topics, including chapters on Green Analytical Chemistry: The Role of

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*Green Extraction Techniques,
Bioactives Obtained From Plants,
Seaweeds, Microalgae and Food
By-Products Using Pressurized
Liquid Extraction and Supercritical
Fluid Extraction, Pressurized Hot
Water Extraction of Bioactives,*

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*and Pressurized Liquid Extraction
of Organic Contaminants in
Environmental and Food Samples.
In this ongoing serial, in-depth,
emerging green extraction
approaches are discussed,
together with their miniaturization*

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and combination, showing the newest technologies that have been developed in the last few years for each case and providing a picture of the most innovative applications with further insights into future trends. Compiles all the

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multiple green extraction techniques currently available, along with their applications Includes the most recent analytical advances in the main green extraction techniques, along with their working principles Covers

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*emerging green extraction
approaches, their miniaturization
and combination and an insight
into future trends*

*Specification of Drug Substances
and Products: Development and
Validation of Analytical Methods,*

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Second Edition, presents a comprehensive and critical analysis of the requirements and approaches to setting specifications for new pharmaceutical products, with an emphasis on phase-appropriate

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development, validation of analytical methods, and their application in practice. This thoroughly revised second edition covers topics not covered or not substantially covered in the first edition, including method

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development and validation in the clinical phase, method transfer, process analytical technology, analytical life cycle management, special challenges with generic drugs, genotoxic impurities, topical products, nasal sprays and

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inhalation products, and biotechnology products. The book's authors have been carefully selected as former members of the ICH Expert Working Groups charged with developing the ICH guidelines, and/or subject-matter

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experts in the industry, academia and in government laboratories. Presents a critical assessment of the application of ICH guidelines on method validation and specification setting Written by subject-matter experts involved in

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*the development and application
of the guidelines Provides a
comprehensive treatment of the
analytical methodologies used in
the analysis, control and
specification of new drug
substances and products Covers*

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*the latest statistical approaches
(including analytical quality by
design) in the development of
specifications, method validation
and shelf-life prediction*

*Handbook of Modern
Pharmaceutical Analysis, Second*

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Edition, synthesizes the complex research and recent changes in the field, while covering the techniques and technology required for today's laboratories. The work integrates strategy, case studies, methodologies, and

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implications of new regulatory structures, providing complete coverage of quality assurance from the point of discovery to the point of use. Treats pharmaceutical analysis (PA) as an integral partner to the drug

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*development process rather than
as a service to it Covers method
development, validation, selection,
testing, modeling, and simulation
studies combined with advanced
exploration of assays, impurity
testing, biomolecules, and chiral*

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separations Features detailed coverage of QA, ethics, and regulatory guidance (quality by design, good manufacturing practice), as well as high-tech methodologies and technologies from "lab-on-a-chip" to LC-MS, LC-

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NMR, and LC-NMR-MS

Wide Spectra of Quality Control

Pharmaceutical Process Chemistry

Pharmaceuticals, Chemicals,

Medical Devices, and Pesticides

The Challenge of CMC Regulatory

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*Compliance for
Biopharmaceuticals
Handbook of Analysis of
Oligonucleotides and Related
Products*

Biopharmaceuticals (i.e., biological
medicines sourced from genetically-

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engineered living systems) for treatment of human diseases have become a significant percentage of the pharmaceutical industry. And not just the recombinant DNA-derived proteins and monoclonal antibodies (both from the innovators and

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biosimilars); but now, an increasing awareness of the importance of gene therapy and genetically engineered cellular medicinal products. These biopharmaceuticals are being developed by many companies whose Chemistry, Manufacturing & Control

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(CMC) teams have varying degrees of familiarity or experience with the CMC strategy and regulatory compliance requirements for these challenging products. Companies clearly plan out the strategy for their clinical study plans, but frequently,

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the development of a strategy for CMC is an afterthought. Coupled with the complexity of the biopharmaceutical manufacturing processes and products, and this can be a recipe for disaster. The third edition of this book provides insights

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and practical guidance for the CMC teams to develop an acceptable cost-effective, risk-based CMC regulatory compliance strategy for all biopharmaceuticals (recombinant proteins, monoclonal antibodies, genetically engineered viruses and

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genetically engineered human cells) from early clinical stage development through market approval. The third edition of this book provides added coverage for the biosimilars, antibody drug conjugates (ADCs), bispecific antibodies, genetically engineered

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viruses, and genetically engineered cells. This third edition of the book also addresses the heightened pressure on CMC regulatory compliance timelines due to the introduction of expedited clinical pathways moving the clinical development closer to a

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seamless phase process (e.g., FDA Breakthrough Therapy designation, CBER Regenerative Medicine Advanced Therapy (RMAT) designation, EMA Priority Medicines (PRIME) designation). The Challenge of CMC Regulatory

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Compliance for Biopharmaceuticals is essential, practical information for all pharmaceutical development scientists, Manufacturing and Quality Unit staff, Regulatory Affairs personnel, and senior management involved in the manufacture of

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biopharmaceuticals.

The last two decades have seen electrospinning of nanofibers performed mainly from solutions of toxic organic solvents. The increase in demand for scaling up electrospinning in recent years

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therefore requires an environmentally friendly process free of organic solvents. This book addresses techniques for clean and safe electrospinning in the fabrication of green nanofibers and their potential applications.

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Impurities : Guideline for Residual
SolventsICH Quality GuidelinesAn
Implementation GuideJohn Wiley &
Sons

Gas Chromatography, Second
Edition, offers a single source of
authoritative information on all

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aspects relating to the practice of gas chromatography. A focus on short, topic-focused chapters facilitates the identification of information that will be of immediate interest for familiar or emerging uses of gas chromatography. The book gives

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those working in both academia and industry the opportunity to learn, refresh and deepen their understanding of fundamental and instrumental aspects of gas chromatography and tools for the interpretation and management of

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chromatographic data. Users will find a consolidated guide to the selection of separation conditions and the use of auxiliary techniques. This new edition restores the contemporary character of the book with respect to those involved in advancing the

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technology, analyzing the data produced, or applying the technique to new application areas. New topics covered include hyphenated spectroscopic detectors, micromachined instrument platforms, derivatization and related

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microchemical techniques, petrochemical applications, volatile compounds in the atmosphere, and more. Includes chapters written by recognized authoritative and visionary experts in the field, thus providing an overview and focused

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treatments on a single topic Provides comprehensive coverage of modern gas chromatography, from theory, to methods and selected applications Places modern developments in research literature into a general context not always apparent to

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inexperienced users of the techniques

Formulating Poorly Water Soluble

Drugs

Encapsulation Nanotechnologies

Quality Management and Quality

Control

Integrated Safety and Risk Assessment

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for Medical Devices and
Combination Products
Amorphous Solid Dispersions
Cancer Risk Assessment

A great deal of confusion and
uncertainty over genotoxic impurity
(GTI) identification, assessment, and

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control exists in the pharmaceutical industry today. Pharmaceutical Industry Practices on Genotoxic Impurities strives to facilitate scientific and systematic consensus on GTI management by presenting rationales, strategies, methods, interpretati
Oligonucleotides represent one of the

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most significant pharmaceutical breakthroughs in recent years, showing great promise as diagnostic and therapeutic agents for malignant tumors, cardiovascular disease, diabetes, viral infections, and many other degenerative disorders. The Handbook of Analysis of

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Oligonucleotides and Related Products is an essential reference manual on the practical application of modern and emerging analytical techniques for the analysis of this unique class of compounds. A strong collaboration among thirty leading analytical scientists from around the

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world, the book provides readers with a comprehensive overview of the most commonly used analytical techniques and their advantages and limitations in assuring the identity, purity, quality, and strength of an oligonucleotide intended for therapeutic use. Topics discussed include: Strategies for

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enzymatic or chemical degradation of
chemically modified oligonucleotides
toward mass spectrometric
sequencing Purity analysis by
chromatographic or electrophoretic
methods, including RP-HPLC, AX-
HPLC, HILIC, SEC, and CGE
Characterization of sequence-related

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impurities in oligonucleotides by mass spectrometry and chromatography
Structure elucidation by spectroscopic methods (IR, NMR, MS) as well as base composition and thermal melt analysis (T_m) Approaches for the accurate determination of molar extinction coefficient of

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oligonucleotides Accurate
determination of assay values
Assessment of the overall quality of
oligonucleotides, including microbial
analysis and determination of residual
solvents and heavy metals Strategies
for determining the chemical stability
of oligonucleotides The use of

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hybridization techniques for supporting pharmacokinetics and drug metabolism studies in preclinical and clinical development Guidance for the presentation of relevant analytical information towards meeting current regulatory expectations for oligonucleotide therapeutics This

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resource provides a practical guide for applying state-of-the-art analytical techniques in research, development, and manufacturing settings.

A single-source reference with a broad and holistic overview of nonclinical studies, this book offers critical training material and describes regulations of

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nonclinical testing through guidelines, models, case studies, practical examples, and worldwide perspectives. The book: Provides a complete overview of nonclinical study organization, conduct, and reporting and describes the roles and responsibilities of a Study Director to

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manage an effective study Covers regulatory and scientific concepts, including international testing and Good Laboratory Practice (GLP), compliance with guidelines, and animal models Features a concluding chapter that compiles case studies / lessons learned from those that have

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served as a Study Director for many years Addresses the entire spectrum of nonclinical testing, making it applicable to those in the government, laboratories and those actively involved in in all sectors of industry Vaccine Manufacturing and Production is an invaluable reference on how to

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produce a vaccine - from beginning to end - addressing all classes of vaccines from a processing, production, and regulatory viewpoint. It will provide comprehensive information on the various fields involved in the production of vaccines, from fermentation, purification, formulation,

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to regulatory filing and facility designs. In recent years, there have been tremendous advances in all aspects of vaccine manufacturing. Improved technology and growth media have been developed for the production of cell culture with high cell density or fermentation. Vaccine Manufacturing

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and Production will serve as a reference on all aspects of vaccine production by providing an in-depth description of the available technologies for making different types of vaccines and the current thinking in facility designs and supply issues. This book will provide insight to the issues

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scientists face when producing a vaccine, the steps that are involved, and will serve as a reference tool regarding state-of-the-art vaccine manufacturing technologies and facility set-up. Highlights include:
Comprehensive coverage of vaccine production : from a process point of

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view- fermentation to purification to
formulation developments; from a
production point of view - from facility
design to manufacturing; and from a
regulatory point of view - requirements
from government agencies Authors
from different major pharmaceutical
and biotechnology companies

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Describes the challenges and issues involved in vaccine production and manufacturing of the different classes of vaccines, an area not covered by other books currently on the market

Bioactive Compounds

Mutagenic Impurities

An Implementation Guide

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The Role of the Study Director in
Nonclinical Studies
Electrospun Biomaterials and Related
Technologies
Sources of Contamination in Medicinal
Products and Medical Devices

*Nano- or micro-encapsulation is
used in many different fields and*

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industries, including pharmaceuticals, cosmetics, food, and agrochemicals. It offers advantages for various applications, especially drug delivery. Nano-encapsulation can help extend and control the release

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of drugs as well as increase drug bioavailability and efficacy. It improves the precision of targeted drug delivery and allows for fabricating nano-encapsulated drugs for diagnostic and theranaostic applications. This book

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covers recent advances in fabricating nano-/micro-capsules using natural carriers for therapeutic and diagnostic drug delivery applications as well as rheology and formulations of micro-emulsions for diverse applications.

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This book is essential for scientists and researchers with diverse backgrounds in chemistry, engineering, material sciences, pharmaceuticals, and drug delivery. This book examines genotoxic impurities and their impact on the

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pharmaceutical industry. Specific sections examine this from both a toxicological and analytical perspective. Within these sections, the book defines appropriate strategies to both assess and ultimately control genotoxic

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impurities, thus aiding the reader to develop effective control measures. An opening section covers the development of guidelines and the threshold of toxicological concern (TTC) and is followed by a section on safety aspects, including safety

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tests in vivo and vitro, and data interpretation. The second section addresses the risk posed by genotoxic impurities from outside sources and from mutagens within DNA. In the final section, the book deals with the quality perspective of

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genotoxic impurities focused on two critical aspects, the first being the analysis and the second how to practically evaluate the impurities. Comprehensive Medicinal Chemistry III provides a contemporary and forward-looking

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critical analysis and summary of recent developments, emerging trends, and recently identified new areas where medicinal chemistry is having an impact. The discipline of medicinal chemistry continues to evolve as it adapts to new

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opportunities and strives to solve new challenges. These include drug targeting, biomolecular therapeutics, development of chemical biology tools, data collection and analysis, in silico models as predictors for biological

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properties, identification and validation of new targets, approaches to quantify target engagement, new methods for synthesis of drug candidates such as green chemistry, development of novel scaffolds for drug discovery,

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and the role of regulatory agencies in drug discovery. Reviews the strategies, technologies, principles, and applications of modern medicinal chemistry Provides a global and current perspective of today's drug discovery process and

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*discusses the major therapeutic classes and targets Includes a unique collection of case studies and personal assays reviewing the discovery and development of key drugs
Covering the whole area of process*

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chemistry in the pharmaceutical industry, this monograph provides the essential knowledge on the basic chemistry needed for future development and key industrial techniques, as well as morphology, engineering and regulatory

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compliances. Application-oriented and well structured, the authors include recent examples of excellent industrial production of active pharmaceutical ingredients. Insight on Genotoxicity Identification and Determination of

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Impurities in Drugs

Gas Chromatography

*Comprehensive Medicinal
Chemistry III*

*Green Extraction Techniques:
Principles, Advances and
Applications*

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Techniques and Applications

With a weight-of-the-evidence approach, cancer risk assessment indentifies hazards, determines dose-response relationships, and assesses exposure to characterize the true risk. This book focuses on

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the quantitative methods for conducting chemical cancer risk assessments for solvents, metals, mixtures, and nanoparticles. It links these to the basic toxicology and biology of cancer, along with the impacts on regulatory guidelines

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and standards. By providing insightful perspective, Cancer Risk Assessment helps researchers develop a discriminate eye when it comes to interpreting data accurately and separating relevant information from erroneous.

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Edited by one of the leading experts in the field, this handbook emphasizes why solid-state issues are important, which approaches should be taken to avoid problems and exploit the opportunities offered by solid state properties in the

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pharmaceutical and agricultural industries. With its practical approach, this is at once a guideline for development chemists just entering the field as well as a high-quality source of reference material for specialists in the

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pharmaceutical and chemical industry, structural chemists, physicochemists, crystallographers, inorganic chemists, and patent departments.

This volume offers a comprehensive guide on the theory

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and practice of amorphous solid dispersions (ASD) for handling challenges associated with poorly soluble drugs. In twenty-three inclusive chapters, the book examines thermodynamics and kinetics of the amorphous state and

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amorphous solid dispersions, ASD technologies, excipients for stabilizing amorphous solid dispersions such as polymers, and ASD manufacturing technologies, including spray drying, hot melt extrusion, fluid bed layering and

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solvent-controlled micro-precipitation technology (MBP). Each technology is illustrated by specific case studies. In addition, dedicated sections cover analytical tools and technologies for characterization of amorphous solid

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dispersions, the prediction of long-term stability, and the development of suitable dissolution methods and regulatory aspects. The book also highlights future technologies on the horizon, such as supercritical fluid processing, mesoporous silica,

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KinetiSol®, and the use of non-salt-forming organic acids and amino acids for the stabilization of amorphous systems. Amorphous Solid Dispersions: Theory and Practice is a valuable reference to pharmaceutical scientists interested

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in developing bioavailable and therapeutically effective formulations of poorly soluble molecules in order to advance these technologies and develop better medicines for the future. Genetic toxicology is considered to

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be an important assessment tool as there is genetic impact of artificial chemicals. Insight on Genotoxicity discusses testing, mechanism, prediction, and bioindicator of genotoxicity taking into consideration recent advances in

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nano-engineered particles.

Corollary of DNA dent is also discussed in detail taking into consideration the impact of ICH guidelines on genotoxicity testing, which is important for drug discovery innovation and

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development. Perspective review of genotoxicity evaluation in phytopharmaceuticals has been mentioned along with the prevention of genotoxicity in brief viewpoint. Salient Features Presents methods, standard

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protocols, and guidelines for genotoxicity testing Examines the impact of ICH Guidelines on genetic toxicity testing which is a regulatory requirement for drug discovery and development Defines appropriate strategies about

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advances in in vivo genotoxicity testing which have been listed along with progress and prospects Discusses advancement in the high-throughput approaches for genotoxicity testing Details computational prediction of

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genotoxicity with consideration of
mutagenicity, chromosomal
damage caused and strategies for
computational prediction in drug
development

Handbook of Modern
Pharmaceutical Analysis

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Nanotechnology in Drug Delivery
Targeted Delivery of Pesticides
Using Biodegradable Polymeric
Nanoparticles
Vaccine Development and
Manufacturing
Genotoxic Impurities

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A Practical Lifecycle Approach
***Learn to implement effective
control measures for mutagenic
impurities in pharmaceutical
development In Mutagenic
Impurities: Strategies for
Identification and Control,***

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distinguished chemist Andrew Teasdale delivers a thorough examination of mutagenic impurities and their impact on the pharmaceutical industry. The book incorporates the adoption of the ICH M7 guideline and

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focuses on mutagenic impurities from both a toxicological and analytical perspective. The editor has created a primary reference for any professional or student studying or working with mutagenic impurities and offers

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readers a definitive narrative of applicable guidelines and practical, tested solutions. It demonstrates the development of effective control measures, including chapters on the purge tool for risk assessment. The

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book incorporates a discussion of N-Nitrosamines which was arguably the largest mutagenic impurity issue ever faced by the pharmaceutical industry, resulting in the recall of Zantac and similar drugs resulting from

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***N-Nitrosamine contamination.
Readers will also benefit from
the inclusion of: A thorough
introduction to the development
of regulatory guidelines for
mutagenic and genotoxic
impurities, including a historical***

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***perspective on the development
of the EMEA guidelines and the
ICH M7 guideline An exploration
of in silico assessment of
mutagenicity, including use of
structure activity relationship
evaluation as a tool in the***

***evaluation of the genotoxic
potential of impurities A
discussion of a toxicological
perspective on mutagenic
impurities, including the
assessment of mutagenicity and
examining the mutagenic and***

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***carcinogenic potential of
common synthetic reagents
Perfect for chemists, analysts,
and regulatory professionals,
Mutagenic Impurities: Strategies
for Identification and Control will
also earn a place in the libraries***

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of toxicologists and clinical safety scientists seeking a one-stop reference on the subject of mutagenic impurity identification and control.

Principles of Parenteral Solution Validation: A Practical Lifecycle

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Approach covers all aspects involved in the development and process validation of a parenteral product. By using a lifecycle approach, this book discusses the latest technology, compliance developments, and

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regulatory considerations and trends, from process design, to divesting. As part of the Expertise in Pharmaceutical Process Technology series edited by Michael Levin, this book incorporates numerous

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case studies and real-world examples that address timely problems and offer solutions to the daily challenges facing practitioners in this area. Discusses international and domestic regulatory

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***considerations in every section
Features callout boxes that
contain points-of-interest for
each segment of the audience so
readers can quickly find their
interests and needs Contains
important topics, including risk***

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management, the preparation and execution of properly designed studies, scale-up and technology transfer activities, problem-solving, and more
The objective of this third edition is to consolidate within a single

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***text the most current knowledge,
practical methods, and
regulatory considerations
pertaining to formulations
development with poorly water-
soluble molecules. A
pharmaceutical scientists***

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***approach toward solubility
enhancement of a poorly water-
soluble molecule typically
includes detailed
characterization of the
compounds physiochemical
properties, solid-state***

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modifications, advanced formulation design, non-conventional process technologies, advanced analytical characterization, and specialized product performance analysis techniques. The

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scientist must also be aware of the unique regulatory considerations pertaining to the non-conventional approaches often utilized for poorly water-soluble drugs. One faced with the challenge of developing a

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drug product from a poorly soluble compound must possess at a minimum a working knowledge of each of the above mentioned facets and detailed knowledge of most. In light of the magnitude of the growing

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solubility problem to drug development, this is a significant burden especially when considering that knowledge in most of these areas is relatively new and continues to develop. Highlights the most recent

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advancements reported in the literature on technologies to improve the dissolution and bioavailability of poorly water soluble drugs Provides a comprehensive discussion of new technologies developed and

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recently over 40% updated new content Essential read for scientists and researchers in pharmaceutical, chemical, and agricultural industries since over 80% of newly discovered drugs are poorly water soluble.

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***Developing Solid Oral Dosage
Forms: Pharmaceutical Theory
and Practice, Second Edition
illustrates how to develop high-
quality, safe, and effective
pharmaceutical products by
discussing the latest techniques,***

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tools, and scientific advances in preformulation investigation, formulation, process design, characterization, scale-up, and production operations. This book covers the essential principles of physical pharmacy,

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biopharmaceutics, and industrial pharmacy, and their application to the research and development process of oral dosage forms. Chapters have been added, combined, deleted, and completely revised as necessary

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***to produce a comprehensive,
well-organized, valuable
reference for industry
professionals and academics
engaged in all aspects of the
development process. New and
important topics include spray***

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drying, amorphous solid dispersion using hot-melt extrusion, modeling and simulation, bioequivalence of complex modified-released dosage forms, biowaivers, and much more. Written and edited

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by an international team of leading experts with experience and knowledge across industry, academia, and regulatory settings Includes new chapters covering the pharmaceutical applications of surface

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***phenomenon, predictive
biopharmaceutics and
pharmacokinetics, the
development of formulations for
drug discovery support, and
much more Presents new case
studies throughout, and a***

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***section completely devoted to
regulatory aspects, including
global product regulation and
international perspectives
Pharmaceutical Industry
Practices on Genotoxic
Impurities***

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***Specification of Drug
Substances and Products
Handbook of Pharmaceutical
Manufacturing Formulations
Chemical Carcinogenesis,
Hazard Evaluation, and Risk
Quantification***

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***Applications of Ion
Chromatography for
Pharmaceutical and Biological
Products
Theory and Practice
Bioactive Compounds -
Biosynthesis,***

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Characterization, and Applications is an authoritative compilation of chapters on bioactive compounds with proven activities. It provides valuable information about

biosynthesized active compounds that can be used for the further development of products in various industries. Chapters cover such topics as biosynthesis, characterization, separation,

and purification, and applications of bioactive molecules. It describes and discusses bioresources of animal, vegetal, and microbial origin as potential sources of flavonoids,

***polysaccharides, sterols,
polyphenols, amino acids,
and others. This book
provides insight into future
developments in the field
and, as such, is an essential
resource for academicians,***

industrial researchers, and practitioners in biomolecules with biological activity. Key features: • Describes several classes of bioactive compounds and their associated activities •

Highlights potential contributions of bioactive compounds as alternatives in the prevention and/or treatment of diseases • Contains information relevant to the development

***and use of new products
Quality control is a standard
which certainly has become
a style of living. With the
improvement of technology
every day, we meet new and
complicated devices and***

***methods in different fields.
Quality control explains the
directed use of testing to
measure the achievement of
a specific standard. It is the
process, procedures and
authority used to accept or***

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reject all components, drug product containers, closures, in-process materials, packaging material, labeling and drug products, and the authority to review production records to assure

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that no errors have occurred. The quality which is supposed to be achieved is not a concept which can be controlled by easy, numerical or other means, but it is the control over the

intrinsic quality of a test facility and its studies. The aim of this book is to share useful and practical knowledge about quality control in several fields with the people who want to

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***improve their knowledge.
A Comprehensive Guide to
Toxicology in Nonclinical
Drug Development, Second
Edition, is a valuable
reference designed to
provide a complete***

***understanding of all aspects
of nonclinical toxicology in
the development of small
molecules and biologics.
This updated edition has
been reorganized and
expanded to include***

important topics such as stem cells in nonclinical toxicology, inhalation and dermal toxicology, pitfalls in drug development, biomarkers in toxicology, and more. Thoroughly

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updated to reflect the latest scientific advances and with increased coverage of international regulatory guidelines, this second edition is an essential and practical resource for all

toxicologists involved in nonclinical testing in industry, academic, and regulatory settings. Provides unique content that is not always covered together in one comprehensive resource,

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including chapters on stem cells, abuse liability, biomarkers, inhalation toxicology, biostatistics, and more Updated with the latest international guidelines for nonclinical toxicology in

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***both small and large
molecules Incorporates
practical examples in order
to illustrate day-to-day
activities and the
expectations associated with
working in nonclinical***

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toxicology

While liquid drugs do not share the compression problems of solid dosage forms, the filling problems of powder dosage forms, or the consistency problems of

semisolid dosage forms, they do have their own set of considerations in the formulation and manufacturing stages. Highlights from Liquid Products, Volume

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***Three include:practical
details invo***

***A Comprehensive Guide to
Toxicology in Nonclinical
Drug Development
Pharmaceutical Theory and
Practice***

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***Biosynthesis,
Characterization and
Applications
Developing Solid Oral
Dosage Forms
Principles of Parenteral
Solution Validation***

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***Impurities : Guideline for
Residual Solvents***

While the safety
assessment
("biocompatibility") of
medical devices has been
focused on issues of

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local tissue tolerance
(irritation,
sensitization,
cytotoxicity) and
selected quantal effects
(genotoxicity and acute
lethality) since first

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being regulated in the late 1950s, this has changed as devices assumed a much more important role in healthcare and became more complex in both

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composition and in their design and operation.

Add to this that devices now frequently serve as delivery systems for drugs, and that drugs may be combined with

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devices to improve device performance, and the problems of ensuring patient safety with devices has become significantly more complex. A part of this,

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requirements for
ensuring safety (once
based on use of
previously acceptable
materials - largely
polymers and metals)
have come to requiring

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determining which chemical entities are potentially released from a device into patients (and how much is released). Then an appropriate and relevant

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(yet also conservative)
risk assessment must be
performed for each
identified chemical
structure. The
challenges inherent in
meeting the current

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requirements are
multifold, and this text
seeks to identify,
understand, and solve
all of them. • Identify
and verify the most
appropriate available

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data. • As in most cases such data is for a different route of exposure, transform it for use in assessing exposure by the route of interest. • As the

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duration (and rate) of exposure to moieties released from a device are most frequently different (longer) than what available data speaks to,

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transformation across
tissue is required. • As
innate and adaptive
immune responses are a
central part of
device/patient
interaction, assessing

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potential risks on this
basis are required. •

Incorporating
assessments for special
populations such as
neonates. • Use of

(Q) SAR (Quantitative

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Structure Activity
Relationships) modeling
in assessments. •
Performance and
presentation of
integrative assessments
covering all potential

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biologic risks.

Appendices will contain summarized available biocompatibility data for commonly used device materials (polymers and metals) and safety

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assessments on the frequently seen moieties in extractions from devices.

Impurity profiling is the common name of a group of analytical

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activities, the aim of which is the detection, identification/structure elucidation and quantitative determination of organic and inorganic

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impurities, as well as residual solvents in bulk drugs and pharmaceutical formulations. Since this is the best way to characterise the quality

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and stability of bulk drugs and pharmaceutical formulations, this is the core activity in modern drug analysis. Due to the very rapid development of the

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analytical methodologies available for this purpose and the similarly rapid increase of the demands as regards the purity of drugs it is an important

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task to give a summary of the problems and the various possibilities offered by modern analytical chemistry for their solution. That is the aim of this book.

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The book is methodology-oriented. In the first chapter some important aspects of the background of impurity-related analytical studies (toxicological,

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pharmacopoeial aspects,
the characterisation of
the sources of
impurities and the role
of impurity profiling in
various fields of drug
research, production and

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therapeutic use) are summarised. Chapter two deals with related organic impurities, the strategies for impurity profiling, the use of chromatographic and

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related separation methods, spectroscopic, and hyphenated techniques. The subject of the third chapter is the identification and determination of

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residual solvents. The determination of inorganic impurities is discussed in chapter four. The special problems of degradation products as impurities

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are dealt with in
chapter five. A separate
chapter has been
compiled to deal with
one of the most up-to-
date problems in
contemporary

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pharmaceutical analysis,
the estimation of
enantiomeric purity of
chiral drugs. Chapter
seven is devoted to
various approaches to
solve the problem of

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polymorphic
modifications as
impurities. Since in the
broader sense of the
word the microbiological
purity of drugs and drug
products also belongs to

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this circle, the most important information from this field is summarised in chapter eight. After the mainly methodology-oriented chapters, the final one

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concentrates on four
groups of drugs
(peptides,
biotechnological
products, antibiotics
and steroids) in order
to demonstrate the use

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of the methods described
earlier.

Examining the
implications and
practical implementation
of multi-disciplinary
International Conference

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on Harmonization (ICH) topics, this book gives an integrated view of how the guidelines inform drug development strategic planning and decision-making. •

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Addresses a consistent need for interpretation, training, and implementation examples of ICH guidelines via case studies • Offers a primary reference point

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for practitioners
addressing the dual
challenge of
interpretation and
practical implementation
of ICH guidelines • Uses
case studies to help

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readers understand and
apply ICH guidelines •
Provides valuable
insights into guidelines
development, with
chapters by authors
involved in generating

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or with experience
implementing the
guidelines • Includes
coverage of stability
testing, analytical
method validation,
impurities,

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biotechnology drugs and products, and good manufacturing practice (GMP)

The brief is the first to focus exclusively on environmentally friendly

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delivery of pesticides
(controlled-release
nanoparticulate
formulation of
pesticides using
biodegradable polymers
as carriers). The brief

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also introduces pesticides like Chlorpyrifos and biodegradable polymers like guar-gum. The brief will be extremely useful to the researchers in

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the field of
agrochemicals and will
be equally useful for
advanced professionals
in the field of biology,
chemistry, environmental
biology, entomology and

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horticulture.

Polymorphism

In the Pharmaceutical
Industry

Modern Sample
Preparation for
Chromatography

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Development and
Validation of Analytical
Methods

The first one-volume guide to sources of contamination in pharmaceuticals and medical devices Most books dealing with contaminants in medicinal products often

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focus on analytical methods for detecting nonspecific impurities. Key to the work of the pharmaceutical chemist, this unique reference helps identify the sources of contamination in medicinal and pharmaceutical products and medical devices. Divided into three parts, Sources of Contamination in Medicinal Products

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and Medical Devices covers chemical, microbiological, and physical (particulate matter) contamination, including those originating from sterilization procedures. As compelling as a medical documentary, the book sheds light on how impurities and contaminants can enter the human body transported via a specific product or

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treatment. Focusing on only those medicinal products and medical devices that may lead to exposure to contaminants harmful to human health, the book offers a comprehensive, systematic look at the entire universe of medical contamination: Chemical contaminants including residual solvents, catalyst residuals, and genotoxic

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impurities in active pharmaceutical ingredients (APIs) Diagnostic imaging agents (i.e., radiopharmaceuticals and contrast agents) Microbiological and endotoxin contamination involving single and multiple dose products, medical devices, and biofilms Contamination from sterilization procedures, residuals from

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radiation sterilization, ionizing radiation on packaging materials and medical devices
Medicinal gases and volatile anesthetics
Biopharmaceuticals including recombinant DNA technology products Extractables and leachables from containers made of glass, plastics, and metal Each section of the book contains information on what

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contaminants could be expected in a particular product, and how they were generated and reached that product. With up-to-date regulatory guidelines for determining contamination, as well as methods for assessing, quantifying, avoiding and removing contaminants, Sources of Contamination in Medicinal

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Products and Medical Devices is essential to fully understanding the specific threats that undermine the safety of medicines and medical devices.

This is a comprehensive source of information on the application of ion chromatography (IC) in the analysis of pharmaceutical drugs and biologicals. This

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book, with contributors from academia, pharma, the biotech industry, and instrument manufacturing, presents the different perspectives, experience, and expertise of the thought leaders of IC in a comprehensive manner. It explores potential IC applications in different aspects of product development and quality

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control testing. In addition, an appendix section gives information on critical physical and chromatographic parameters related to IC and information on current manufacturers of IC systems, columns, and other components.

The reader will be introduced to various aspects of the fundamentals of

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nanotechnology based drug delivery systems and the application of these systems for the delivery of small molecules, proteins, peptides, oligonucleotides and genes. How these systems overcome challenges offered by biological barriers to drug absorption and drug targeting will also be described.