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Principles and Practice of Modern Chromatographic
Methods Update on Undertaking Extractable and
Leachable Testing Specification of Drug Substances
and Products Authenticity of Foods of Plant Origin
The Handbook of Metabolic Phenotyping Gas
Chromatography Encyclopedia of Analytical Science

Principles and Practice of Modern Chromatographic Methods

2021-12-03

principles and practice of modern chromatographic methods second edition takes a comprehensive unified approach in its presentation of chromatographic techniques like the first edition the book provides a scientifically rigid but easy to follow presentation of chromatography concepts that begins with the purpose and intent of chromatographic theory the what and why that are left out of other books attempting to cover these principles this fully revised second edition brings the content up to date covering recent developments in several new sections and an additional chapter on composite methods new topics include sample profiling sample preparation sustainable green chemistry 2d chromatography miniaturization nano lc hilic and more contains thorough chapters that begin with an updated schematic overview and a visual representation of the content avoids the obfuscation of different terminologies and classification systems that are prevalent in the area such as the relationship between liquid chromatography and column chromatography provides integrated and comprehensive topic coverage based on chromatographic bibliometrics and survey reports on the relative usage of chromatographic techniques

Update on Undertaking Extractable and Leachable Testing

2011-03-31

the assessment of all materials and especially elastomeric and plastic components for the presence of leachable and extractable components forms an important part of the submission for approval of a new drug system or medical device this update gives a detailed state of the art review of the selection of techniques available to the analyst to perform a controlled extraction study for leachables and extractables with an overview of the factors to consider when selecting the extraction technique this book will be of interest to chemists and r d managers

Specification of Drug Substances and Products

2020-07-23

specification of drug substances and products development and validation of analytical methods 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 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 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 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 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 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 the latest statistical approaches including analytical quality by design in the development of specifications method validation and shelf life prediction

Authenticity of Foods of Plant Origin

2022-06-15

food is adulterated to increase profit or due to negligence adulteration can compromise food safety and quality and harm consumers this may undermine consumer trust and the reputation of the food industry as such it is very important to monitor

control and detect adulteration a number of techniques have been developed for the authentication of food and verifying its quality and associated claims foods of plant origin are the source of nutrients for billions of people around the globe due to the huge variety of plants and the lack of visual characteristics as a result of processing advanced techniques are required to detect adulteration this book reviews the latest developments in the field of authenticity of foods of plant origin examining concepts such as traceability and how they are applied to facilitate the support of claims as well as legislative requirements in the major economies around the world the basic techniques used nowadays in verifying authenticity of these types of foods are reviewed and discussed and their applications are summarized the book also focuses on categories of foods most prone to adulteration attempts due to their characteristics properties and production methods commonly followed thus allowing the reader to more easily identify the chapter that is of interest in each case the book will be of interest to food industrialists chemists quality control scientists and technologists microbiologists analytical chemists and food physical chemists within the food industry it is also aimed at academicians who are interested in the authenticity of foods of plant origin and the advancements in the analytical fields that support relevant legal and marketing requirements

The Handbook of Metabolic Phenotyping

2018-10-04

the handbook of metabolic phenotyping is the definitive work on the rapidly developing subject of metabolic phenotyping it explores in detail the wide array of analytical chemistry and statistical modeling techniques used in the field coupled with surveys of the various application areas in human development nutrition disease therapy and epidemiology to create a comprehensive exploration of the area of study it covers recent studies that integrate the various omics data sets to derive a systems biology view it also addresses current issues on standardization assay and statistics validation and data storage and sharing written by experts with many years of practice in the field who pioneered many of the approaches widely used today the handbook of metabolic phenotyping is a valuable resource for postgrads and research scientists studying and furthering the field of metabolomics contains theoretical and practical explanations of all the main analytical chemistry techniques used in metabolic phenotyping explores in detail the many diverse statistical approaches used in the field offers practical tips for successfully conducting metabolic phenotyping studies features reviews of all of the various fields of activity relating to human studies

Gas Chromatography

2021-04-20

gas chromatography second edition offers a single source of authoritative information on all 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 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 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 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 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 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 inexperienced users of the techniques

Encyclopedia of Analytical Science

2019-04-02

the third edition of the encyclopedia of analytical science ten volume set is a definitive collection of articles covering the latest technologies in application areas such as medicine environmental science food science and geology meticulously organized clearly written and fully interdisciplinary the encyclopedia of analytical science ten volume set provides foundational knowledge across the scope of modern analytical chemistry linking fundamental topics with the latest methodologies articles will cover three broad areas analytical techniques e g mass spectrometry liquid chromatography atomic spectrometry areas of application e g forensic environmental and clinical and analytes e g arsenic nucleic acids and polycyclic aromatic hydrocarbons providing a one stop resource for analytical scientists offers readers a one stop resource with access to information across the entire scope of modern analytical science presents articles split into three broad areas analytical techniques areas of application and and analytes creating an ideal resource for students researchers and professionals provides concise and accessible information that is ideal for non specialists and readers from undergraduate levels

and higher

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