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Gas chromatography continues to be one of the most widely used analytical techniques, since its applications today expand into fields such as biomarker research or metabolomics. This new practical textbook enables the reader to make full use of gas chromatography. Essential fundamentals and their implications for the practical work at the instrument are provided, as well as details

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~~Practical Gas Chromatography: A Comprehensive Reference in ...~~

A unique practical guide to building, using, and maintaining a complete GC/MS system. Though gas chromatography/mass spectrometry (GC/MS) is one of the most effective and popular methods of separating, identifying, and quantifying compounds in complex mixtures, there have been no comprehensive handbooks to date that clearly explain the setup and

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Gas chromatography continues to be one of the most widely used analytical techniques, since its applications today expand into fields such as biomarker research or metabolomics. This new practical textbook enables the reader to make full use of gas chromatography.

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Gas chromatography continues to be one of the most widely used analytical techniques, since its applications today expand into fields such as biomarker research or metabolomics. This new practical textbook enables the reader to make full use of gas chromatography. Essential fundamentals and their implications for the practical work at the instrument are provided, as well as details on the instrumentation such as inlet systems, columns and detectors. Specialized techniques from all aspects of GC are introduced ranging from sample preparation, solvent-free injection techniques, and pyrolysis GC, to separation including fast GC and comprehensive GCxGC and finally detection, such as GC-MS and element-specific detection. Various fields of

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application such as enantiomer, food, flavor and fragrance analysis, physicochemical measurements, forensic toxicology, and clinical analysis are discussed as well as cutting-edge application in metabolomics is covered.

Analytical Gas Chromatography is a free-standing introduction to and guide through the rapidly progressing field of analytical gas chromatography. The book is divided into 10 chapters that cover various aspects of analytical gas chromatography, from most advantageous column type to troubleshooting. The opening chapters of the book discuss the advantages of the open tubular column over the packed column. This topic is followed by significant chapters on various variables in the gas chromatographic process, including sample injection, stationary phase, carrier gas, and installation. The

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effect of changes in these variables on the solution elution order is also considered. A chapter also examines the influence of instrumental design features, such as excessive or unswept volumes in the flow path; suitability of the detection mode; and speed and fidelity of the data-handling equipment. The book also presents selected methods that have been employed to achieve better results for a given gas chromatographic problem. The application areas of gas chromatographic process, including food, flavor, fragrance, petroleum- and chemical-related, environment, biology, and medicine, are also presented. The concluding chapter addresses the basic troubleshooting knowledge and considers other chromatographic problems and methods for their rectification.

A Practical Gas Analysis by Gas

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Chromatography provides a detailed overview of the most important aspects of gas analysis by gas chromatography (GC) for both the novice and expert. Authors John Swinley and Piet de Coning provide the necessary information on the selection of columns and components, thus allowing the reader to assemble custom gas analysis systems for specific needs. The book brings together a wide range of disparate literature on this technique that will fill a crucial gap for those who perform different types of research, including lab operators, separation scientists, graduate students and academic researchers. This highly practical, up-to-date reference can be consulted in the lab to guide key decisions about proper setup, hardware and software selection, calibration, analysis, and more, allowing researchers to avoid the common pitfalls caused by incorrect infrastructure. Shows, in detail,

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how valve configurations work, allowing readers to understand the building blocks of extremely complex systems Presents the complete infrastructure for setting up a gas analysis laboratory in a single source Includes a full chapter on practical analytical systems for analyzing various gas mixtures

The bible of gas chromatography-offering everything the professional and the novice need to know about running, maintaining, and interpreting the results from GC Analytical chemists, technicians, and scientists in allied disciplines have come to regard Modern Practice of Gas Chromatography as the standard reference in gas chromatography. In addition to serving as an invaluable reference for the experienced practitioner, this bestselling work provides the beginner with a solid understanding of gas chromatographic

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theory and basic techniques. This new Fourth Edition incorporates the most recent developments in the field, including entirely new chapters on gas chromatography/mass spectrometry (GC/MS); optimization of separations and computer assistance; high speed or fast gas chromatography; mobile phase requirements: gas system requirements and sample preparation techniques; qualitative and quantitative analysis by GC; updated information on detectors; validation and QA/QC of chromatographic methods; and useful hints for good gas chromatography. As in previous editions, contributing authors have been chosen for their expertise and active participation in their respective areas. Modern Practice of Gas Chromatography, Fourth Edition presents a well-rounded and comprehensive overview of the current state of this important technology,

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Comprehensive Reference providing a practical reference that will greatly appeal to both experienced chromatographers and novices.

The book reviews the basic concepts and highlights the most relevant advances and developments that have taken place in the field of comprehensive two dimensional gas chromatography (GC x GC) since its introduction in 1991. The several instrumental and technical approaches assayed and developed during these seventeen years and that have contributed to the development of this powerful separation technique and to its increasing application in many areas is explained and comprehensively illustrated through a number of chapters devoted these specific topics. More specialized aspects of the technique, including theoretical aspects, modelization of the chromatographic process, software developments, and

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alternative couplings is also covered.

Finally, special attention is paid to data treatment, for both qualitative and quantitative analysis. This book will be a practical resource that will explain from basic to specialized concepts of GC x GC and will show the current state-of-the-art and discuss future trends of this technique. Outlines basic concepts and principles of GCxGC technique for non-specialists to apply the technique to their research Provides detailed descriptions of recent technical advances and serves as an instructional guide in latest applications in GCxGC Sets the scene for possible future development and alternative new applications of technique

The New Edition of the Well-Regarded Handbook on GasChromatography Since the publication of the highly successful first edition of Basic Gas Chromatography,

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the practice of chromatography has undergone several notable developments. Basic Gas Chromatography, Second Edition covers the latest in the field, giving readers the most up-to-date guide available, while maintaining the first edition's practical, applied approach to the subject and its accessibility to a wide range of readers. The text provides comprehensive coverage of basic topics in the field, such as stationary phases, packed columns and inlets, capillary columns and inlets, detectors, and qualitative and quantitative analysis. At the same time, the coverage also features key additions and updated topics including: Gas chromatography-mass spectrometry (GC-MS) Sampling methods Multidimensional gas chromatography Fast gas chromatography Gas chromatography analysis of nonvolatile compounds Inverse gas chromatography and pyrolysis

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gas chromatography Along with these new and updated topics, the references, resources, and Web sites in Basic Gas Chromatography have been revised to reflect the state of the field. Concise and fundamental in its coverage, Basic Gas Chromatography, Second Edition remains the standard handbook for everyone from undergraduates studying analytical chemistry to working industrial chemists.

* Provides comprehensive coverage of the applications of gas chromatography An extremely important analytical tool, this technique has wide applications in the chemical, biological, and clinical fields. It is unsurpassed in its employment for the detection, identification, and quantification of trace substances in many fields. The book clearly demonstrates the diversity of gas chromatography including

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its uses in petroleum exploration, environmental analysis and toxicology. With clear, easy-to-follow protocols the book leads the inexperienced user through each technique step-by-step. Bringing together a wide range of areas for which gas chromatography is a valuable tool, this volume will be indispensable for scientists and clinicians in fields ranging from environmental science to medicine.

Gas chromatography is widely used in applications involving food analysis. Typical applications pertain to the quantitative and/or qualitative analysis of food composition, natural products, food additives, and flavour and aroma components. Providing an up-to-date look at the significant advances in the technology, this book includes details on novel sample preparation processes; conventional, high-speed

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multidimensional gas chromatography systems, including preparative instrumentation; gas chromatography–olfactometry principles; and, finally, chemometrics principles and applications in food analysis. Aimed at providing the food researcher or analyst with detailed analytical information related to advanced gas chromatography technologies, this book is suitable for professionals and postgraduate students learning about the technique in the food industry and research.

Gas Chromatography provides a contemporary picture of the field, including fundamentals and practical applications, in a single source.

The only reference to provide both current and thorough coverage of this important analytical technique Static headspace-gas

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Chromatography (HS-GC) is an indispensable technique for analyzing volatile organic compounds, enabling the analyst to assay a variety of sample matrices while avoiding the costly and time-consuming preparation involved with traditional GC. Static Headspace-Gas Chromatography: Theory and Practice has long been the only reference to provide in-depth coverage of this method of analysis. The Second Edition has been thoroughly updated to reflect the most recent developments and practices, and also includes coverage of solid-phase microextraction (SPME) and the purge-and-trap technique. Chapters cover: *

- * Principles of static and dynamic headspace analysis, including the evolution of HS-GC methods and regulatory methods using static HS-GC
- * Basic theory of headspace analysis-physicochemical relationships, sensitivity, and the principles of multiple

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vials, cleaning, caps, sample volume,
enrichment, and cryogenic techniques *
Sample handling * Cryogenic HS-GC *
Method development in HS-GC *
Nonequilibrium static headspace analysis
* Determination of physicochemical
functions such as vapor pressures, activity
coefficients, and more Comprehensive and
focused, Static Headspace-Gas
Chromatography, Second Edition provides
an excellent resource to help the reader
achieve optimal chromatographic results.
Practical examples with original data help
readers to master determinations in a wide
variety of areas, such as forensic,
environmental, pharmaceutical, and
industrial applications.

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