

Maxum Edition Ii Gas Chromatograph System

Modern Practice of Gas Chromatography Stationary Phases in Gas Chromatography Basic Gas Chromatography-Mass Spectrometry Handbook of Chromatography Hydrocarbons Gas Chromatograph Indexes to the Epilepsy Accessions of the Epilepsy Information System Determination of Anions in Natural and Treated Waters Gas Chromatography What You Should Know about Gas Chromatography Modern Practice of Gas Chromatography Feasibility Study of a Pocket Sized Gas Chromatographic Air Analyzer Gas Chromatography Gas Chromatography Gas Chromatography Journal of Gas Chromatography Gas Chromatography in Biology and Medicine Gas Chromatography Fuels and Lubricants Handbook Guide to Gas Chromatography Literature Gas Chromatography Scientific and Technical Aerospace Reports Robert L. Grob, PhD H. Rotzsche F.W. Karasek Walter L. Zielinski J. Kiffin Penry T R Crompton Colin Simpson Robert Lee Grob Stanford University. Stanford Electronics Laboratories R. E. Clement Gerhard Schomburg Lewis Fowler Henry J. Noebels Austin V. Signeur Modern Practice of Gas Chromatography Stationary Phases in Gas Chromatography Basic Gas Chromatography-Mass Spectrometry Handbook of Chromatography Hydrocarbons Gas Chromatograph Indexes to the Epilepsy Accessions of the Epilepsy Information System Determination of Anions in Natural and Treated Waters Gas Chromatography What You Should Know about Gas Chromatography Modern Practice of Gas Chromatography Feasibility Study of a Pocket Sized Gas Chromatographic Air Analyzer Gas Chromatography Gas Chromatography Gas Chromatography Journal of Gas Chromatography Gas Chromatography in Biology and Medicine Gas Chromatography Fuels and Lubricants Handbook Guide to Gas Chromatography Literature Gas Chromatography Scientific and Technical Aerospace Reports *Robert L. Grob, PhD H. Rotzsche F.W. Karasek Walter L. Zielinski J. Kiffin Penry T R Crompton Colin Simpson Robert Lee Grob Stanford University. Stanford Electronics Laboratories R. E. Clement Gerhard Schomburg Lewis Fowler Henry J. Noebels Austin V. Signeur*

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

the primary aim of this volume is to make the chemist familiar with the numerous stationary phases and column types with their advantages and disadvantages to help in the selection of the most suitable phase for the type of analytes under study the book also provides detailed information on the chemical structure physico chemical behaviour experimental applicability physical data of

liquid and solid stationary phases and solid supports such data were previously scattered throughout the literature to understand the processes occurring in the separation column and to offer a manual both to the beginner and to the experienced chromatographer one chapter is devoted to the basic theoretical aspects further as the effectiveness of the stationary phase can only be considered in relation to the column type a chapter on different column types and the arrangement of the stationary phase within the column is included the secondary aim of this book is to stimulate the development of new and improved standardized stationary phases and columns in order to improve the reproducibility of separations as well as the range of applications

the book begins by covering the basic principles of both gas chromatography gc and mass spectrometry ms to the extent necessary to understand and deal with the data generated in a gc ms analysis the focus then turns to the particular requirements created by a direct combination of these two techniques into a single instrumentation system the data generated and their use are covered in detail the role of the computer and its specific software receives special attention especially in the matter of compound identification via mass spectral search techniques gc ms computer instrumentation has reached such a plateau of excellence today that the present commercial systems will not be obsolete for a long time to come therefore a detailed description of these systems is not only informative but is also pertinent to the subject matter of this book finally representative applications and results obtained with gc ms computer techniques are presented and chosen in such a way as to permit extrapolation of specific applications to similar problems encountered by the reader to aid the reader in mastering the subject matter and increase understanding interpretation problems and suggested readings are included the format is instructional informative and application oriented with material presented in such a way as to be useful to a broad spectrum of people the book serves as a text in its own right the software package gas chromatography mass spectrometry a knowledge base by f a settle jr and m a pleva provides rapid access to a wealth of current information in the gc ms field its three diskettes 5 1/4 inch allow the user three ways to access the index mode the tree mode and a keyword search mode the package may be purchased separately and is available for the ibm pc and compatibles the software provides a valuable supplement to the book

this volume covers the world's literature between 1970 and 1980 and addresses the wide diversity of hydrocarbons structures the basic operating components of the gas chromatographic system and their control for optimizing separations it includes numerous chromatograms depicting separations of various hydrocarbon classes and features three major sections on hydrocarbon analysis with respect to general application specific studies and special techniques the properties and characteristics of and studies employing the broad spectrum of available liquid phases and absorbents as separating media and studies reporting retention data for the different hydrocarbon classes are described the text provides 45 comprehensive retention tables containing several thousand indices in a standardized retention index format

as environmental controls are lagging behind industrial development metals are an increasing hazard to humans animal and plant life bioaccumulation of metals through the food chain creates a serious impact on public health yet analytical techniques for detecting the often low concentrations of contaminants are poorly understood determination of

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concerned with the use of gas chromatography to solve biological and biochemical problems provides thorough coverage of the methods involved basic principles and equipment multidimensional techniques detectors and derivatization techniques several chapters deal specifically with biological applications such as the biological profiling and monitoring of drug therapy and the detection of urinary acids and steroids prostaglandins fatty acids and lipids treats drug abuse detection toxicological problems and the determination of heavy metals in blood plasma the use of gas chromatography for identifying bacteria in the clinical microbiology laboratory is also discussed

this practical approach to gas chromatography is a fast and effective introduction for the beginner and a guide for the professional bringing him up to date with modern techniques the beginner will appreciate the clear and concise presentation of background theory and the professional will benefit from the depiction of the tricks and traps of the real world of gas chromatography a special chapter shows and explains in detail 40 chromatograms thus the book can also be used for practical courses the author has been involved in the development of most modern gc techniques and awarded numerous prizes in europe and the united states

the bibliography which follows represents an effort to provide the active or potential worker in the field of gas chromatography with references to the theory methodology and applications of this phase of chemistry a review of the cited references will afford background for proposed applications suggest possible solution of a problem furnish an acquaintance with trends and current work being conducted and furnish a realization of the possibilities and potentialities of a technique for the separation identification and more recently preparation of materials to augment the numerous literature references titles of papers presented at various scientific meetings are given some of these papers have not been published but they represent a part of the literature of this technique since they indicate the progress and thinking of workers in this field and provide the opportunity for those with mutual interests to communicate with each other for further details to afford ready referral for additional information references are given when available to chemical abstracts onto the abstract in the program of the meeting to accommodate those who may desire microfilm or photostatic copies of the published works complete pagination is given rather than initial page references austin v signeur contents listing of bibliographie entries alphabetized according to first author 1 author index 279

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