Advances In Carbohydrate Chemistry And Biochemistry

From Medical Chemistry to BiochemistryEssentials of Carbohydrate Chemistry and BiochemistryAdvances in Carbohydrate Chemistry and BiochemistryThe Maillard ReactionChaos In Chemistry And BiochemistryIntroduction to the Chemistry of LifePhenolic Antioxidants in Foods: Chemistry, Biochemistry and AnalysisBiochemistryChemistry , Biochemistry and Ayurveda of Indian Medicinal PlantsHigh Pressure Chemistry, Biochemistry and Materials ScienceMetal-Ligand Interactions in Organic Chemistry and BiochemistryChemistry, Biochemistry, and Biology of 1-3 Beta Glucans and Related PolysaccharidesThe Biological Chemistry of the ElementsHigh Pressure Chemistry, Biochemistry and Materials ScienceThe CarbohydratesChemical TechnologyHandbook of Chemistry, Biochemistry and BiologyThe CarbohydratesRadical and Radical Ion Reactivity in Nucleic Acid ChemistryBiochemistry Robert E. Kohler Thisbe K. Lindhorst H. E. Nursten Richard J Field Harland D. Embree Alam Zeb Mark Lorch Prof. I.P. Tripathi R. Winter A. Pullman Antony Bacic J. J. R. Frausto da Silva R. Winter William Ward Pigman Nekane Guarrotxena Ludmila N. Shishkina Ward Pigman Michael D. Greenberg David E. Metzler

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this penetrating case study of institution building and entrepreneurship in science shows how a minor medical speciality evolved into a large and powerful academic discipline drawing extensively on little used archival sources the author analyses in detail how biomedical science became a central part of medical training and practice the book shows how biochemistry was defined as a distinct discipline by the programmatic vision of individual biochemists and of patrons and competitors in related disciplines it shows how discipline builders used research programmes as strategies that they adapted to the opportunities offered by changing educational markets and national medical reform movements in the united states britain and germany the author argues that the priorities and styles of various departments and schools of biochemistry reflect systematic social relationships between that discipline and biology chemistry and medicine science is shaped by its service roles in particular local contexts this is the central theme the author s view of the political economy of modern science will be of interest to historians and social scientists scientific and medical practitioners and anyone interested in the ecology of knowledge in scientific institutions and professions

thisbe k lindhorst essentials of carbohydrate chemistry and biochemistry carbohydrates are probably nature s most common product plants and algae biosynthesize millions of tons of them every year carbohydrates are stores of energy and structural building blocks they are versatile enough to serve as encoders of biological information and last but not least they are involved in

recognition processes at a molecular level research into carbohydrate and glycoconjugate functions in cell to cell communication processes has even created a new and rapidly developing field of study glycobiology thisbe k lindhorst is one of the leading next generation scientists in the area of carbohydrate research within her current book she presents a comprehensive introduction to the fascinating world of carbohydrates in a lucid explicit language she explains carbohydrate structures and the basic concepts of saccharide chemistry and saccharide biochemistry with the same clarity she spans the gap to the glycobiological aspects of modern glyco science sample descriptions of research methods supplement the vital teaching text and open an experienced scientist s bag of tricks required to synthesize and analyze sugar derivatives easily and successfully this book offers valuable guidance for students as well as for researchers working in chemistry biochemistry and biomedicine reading it can help everyone become an expert in the field of carbohydrate chemistry

since its inception in 1945 advances in carbohydrate chemistry and biochemistry has provided critical and integrating articles written by research specialists that integrate industrial analytical and technological aspects of biochemistry organic chemistry and instrumentation methodology in the study of carbohydrates the articles provide a definitive interpretation of the current status and future trends in carbohydrate chemistry and biochemistry high quality comprehensive reviews covering all aspects of carbohydrate chemistry

the maillard reaction chemistry biochemistry and implications provides a comprehensive treatise on the maillard reaction this single author volume covers all aspects of the maillard reaction in a uniform coordinated and up to date manner the maillard reaction chemistry biochemistry and implications will be welcomed as an important publication for both new and experienced researchers who are involved in solving the mysteries and complexities of maillard chemistry and biochemistry it will also appeal to students university lecturers and researchers in a variety of fields including food science nutrition biochemistry medicine pharmacology toxicology and soil science book jacket

true deterministic chaos is characterized by unpredictable apparently random motion in a dynamical system completely described by a deterministic dynamic law usually a nonlinear differential equation with no stochastic component the inability to predict future behavior of a chaotic system occurs because trajectories evolving from arbitrarily close initial conditions diverge chaos is universal as it may arise in any system governed by one of a class of quite common suitable nonlinear dynamic laws this book discusses both the experimental observation and theoretical interpretation of chaos in chemical and biochemical systems examples are drawn from the belousov zhabotinsky reaction surface reactions electrochemical reactions enzyme reactions and periodically perturbed oscillating systems

this book presents an introduction to the chemistry of life it contains those facts and generalizations of organic chemistry that are both a fascinating object for study and also the basis for biochemistry without a firm foundation in organic chemistry which itself is based on general chemistry biochemistry becomes a meaningless memorization as a textbook we believe this volume will be particularly useful for college courses for those who plan to teach biology or who plan to enter the health sciences preface

plant foods are an essential part of our daily diet and constitute one of the highest contributors to the world economy these foods are rich in phenolic compounds which play a significant role in maintaining our health this textbook presents a comprehensive overview of the chemistry biochemistry and analysis of phenolic compounds present in a variety of foods the text can be used as a singular source of knowledge for plant food science and technology covering all of the important chemical biochemical and analytical aspects needed for a thorough understanding of phenolic antioxidants in foods phenolic antioxidants in foods chemistry biochemistry and analysis is comprised of three sections the first section covers the basic concepts of antioxidants their chemistry and their chemical composition in foods providing a detailed introduction to the concept the second section covers the biochemical aspects of phenolic antioxidants including their

biosynthetic pathways biological effects and the molecular mechanism of antioxidant effects in the biological system this section promotes an understanding of the fundamental biochemical reactions that take place in foods and after digestion and absorption the third section covers the analytical chemistry used in the analysis of phenolic antioxidants in foods including the basic analytical procedures methods for analysis and chromatographic and spectroscopic analyses this section is significant for aspiring food chemists and manufacturers to evaluate the nature and chemistry of phenolic antioxidants in foods featuring helpful quizzes section summaries and key chapter points this textbook is the perfect learning tool for advanced chemistry undergraduates and post graduates looking to gain a fundamental understanding of phenolic antioxidants in food products

all living things are composed of cells which have fundamentally the same chemistry biochemistry is the study of reactions within these cells and the molecules that are created manipulated and destroyed as a result of them this book discusses the key concepts of biochemistry as well as the recent discoveries and innovations in the field

this book aims to discuss and practices all the issues pertaining to medicinal plants research documentation utilization conservation activities standardization quality control tissue culture biotechnology biochemistry phytochemistry and chemical characterization taking place in various universities institutions colleges and their impact on medicinal plants

this monograph which is the outcome of the asi on high pressure chemistry biochemistry and materials science illustrates new developments in the field of high pressure science in fact for chemists biochemists and materials scientists pressure as an experimental variable represents a tool which provides unique information about systems of materials studied it is interesting to note how the growth of the high pressure field is also reflected in the content of the recent asi s dealing with this field the asi high pressure chemistry held in 1977 was followed by the asi high pressure chemistry and biochemistry held in 1986 and the coverage of the present asi also includes applications to materials science in view of the teaching character of the asi it is natural that main contributions to this volume present overviews of the different subfields or applications of high pressure research in contrast contributed papers offer more specialized aspects of various high pressure studies the various contributions to this volume make clear the impressive range of fundamental and applied problems that can be studied by high pressure techniques and also point towards a major growth of high pressure science and technology in the near future this asi focused mainly on advances achieved in the six years since the previous asi devoted to the high pressure field the organization of this volume is as follows

the 9th jerusalem symposium was dedicated to the memory of professor ernst david bergmann an imposing and deeply moving memorial session chaired by professor ephraim katzir the president of the state of isU᾽rael and a close friend of professor bergmann preceded the symposium itself during this session professor bergmann s personality scienU᾽tific achievements and contributions to the development of his country were described and praised besides president katzir by professor a dvoretzky president of the israel academy of sciences and humanities professor d ginsburg dean of the israel institute of technology in haifa and the author of these lines may i just quote short extracts from these speeches president katzir as we open this ninth in the series of symposia initiated in 1967 it is difficult for me as i am sure for many of ernst bergmann s friends co workers and students to be here without him he was not only a great scientist and a beloved teacher he was one of the most important founders of science in this country to him we owe many institutes and the establishment here of many branches of science professor dvoretzky ernst bergmann s greatness did not stem from one component overshadowing all the others it was a multifaceted greatU᾽ness consisting of the harmonious co lescing of seemingly contrasting entities into a wonderful unity

chemistry biochemistry and biology of 1 3 beta glucans and related polysaccharides presents a comprehensive systematic and authoritative survey of information about a family of chemically related but functionally diverse naturally occurring polysaccharides the 1 3 glucans international contributors describe the chemical and physicochemical properties of these glucans and their

derivatives and the molecular biological and structural aspects of the enzymes involved in their formation and breakdown a detailed analysis of their physiological roles in the various biological situations in which they are found will be provided additionally evolutionary relationships among the family of these glucans will be described topics of medical relevance include detailing the glucans interactions with the immune system and research for cancer therapy applications resource links allow scientists to explore additional beta glucan research separate indexes divided into species and subject for enhanced searchability

this text describes the functional role of the twenty inorganic elements essential to life in living organisms

this monograph which is the outcome of the asi on high pressure chemistry biochemistry and materials science illustrates new developments in the field of high pressure science in fact for chemists biochemists and materials scientists pressure as an experimental variable represents a tool which provides unique information about systems of materials studied it is interesting to note how the growth of the high pressure field is also reflected in the content of the recent asi s dealing with this field the asi high pressure chemistry held in 1977 was followed by the asi high pressure chemistry and biochemistry held in 1986 and the coverage of the present asi also includes applications to materials science in view of the teaching character of the asi it is natural that main contributions to this volume present overviews of the different subfields or applications of high pressure research in contrast contributed papers offer more specialized aspects of various high pressure studies the various contributions to this volume make clear the impressive range of fundamental and applied problems that can be studied by high pressure techniques and also point towards a major growth of high pressure science and technology in the near future this asi focused mainly on advances achieved in the six years since the previous asi devoted to the high pressure field the organization of this volume is as follows

this collection presents a broad spectrum of chapters in the various branches of industrial chemistry biochemistry and materials science which demonstrate key developments in these rapidly changing fields this book offers a valuable overview and myriad details on current chemical processes products and practices the book serves a spectrum of

the majority of chapters in this book were written by scientists of n m emanuel institute of biochemical physics ibchph of russian academy of sciences prof n m emanuel was one of the founders of biochemical physics a part of natural science this science borders on the line of physics chemistry and biology with integration of mathematics and with practical applications in medicine and agriculture the book is devoted to these topics the time has come to show the scientific community world wide what russian scientists have recently done in this area six chapters of this volume have information about hydrogels in endovascular embolisation special attention devoted to synthesis and properties of spherical particles sp of hydrogels and their medico biological properties clinical use of sp radiopaque sp and their preparation and properties morphological foundation of hydrogels use for vascular occlusion antitumor agents methotrexate containing poly hema hydrogels and poly hema with intensified haemostatic activity as a new embolic materials the volume has very important information about pharmacological premises of the creation of new antitumor preparations of the class of nitrosoalkylurea and investigation of new mechanism of e coli resistance to alkylation damages induced by no donation agent a quasi adaptive response it also includes information about biological activity of different enzymes in process of oxidation in vivo and in vitro investigation of the properties of lipids in plants and in animals some chapters deal with pharmacological criterions for new antitumor drugs using of tocopherols as bioantioxidants in vitro and in vivo creation of new equipment for chemical engineering investigation of enzyme reactions thermodegradation and combustion of polymers and polymer composites formation of char during of combustion molecular design and reactivity of some chemical compounds problems of pethrochemistry preparation and modification of microparticles investigation of antioxidants in food products chemistry of rubber and formation of carbon nanostructures several chapters include very important information about application of electron spin resonance techniques for

investigation of chemical and biochemical reactions

the carbohydrates chemistry biochemistry physiology is a 15 chapter text that covers the significant developments in the biochemical and physiological aspects of the carbohydrates the first two chapters explore the structure stereochemistry occurrence properties and synthesis of monosaccharides considerable chapters are devoted to the chemical aspects of various classes of carbohydrates including esters glycosides acetals polyols acidic carbohydrates ethers nitrogenous derivatives oligosaccharides polysaccharides and glycosidases the discussion then shifts to the qualitative and quantitative determination of carbohydrates as well as their photosynthesis and metabolism the final chapters focus on the important role of carbohydrates in nutrition and in dental aspects this work will be of value to chemists biochemists industrialists biologists histochemists students and medical and dental research workers

comprehensive coverage of radical reactive intermediates in nucleic acid chemistry and biochemistry the wiley series on reactive intermediates in chemistry and biology investigates reactive intermediates from the broadest possible range of disciplines the contributions in each volume offer readers fresh insights into the latest findings emerging applications and ongoing research in the field from a diverse perspective the chemistry and biochemistry of reactive intermediates is central to organic chemistry and biochemistry and underlies a significant portion of modern synthetic chemistry radical and radical ion reactivity in nucleic acid chemistry provides the only comprehensive review of the chemistry and biochemistry of nucleic acid radical intermediates with contributions by world leaders in the field the text covers a broad range of topics including a discussion of the relevant theory ionization of dna nucleic acid sugar radicals halopyrimidines oxidative reductive and low energy electron transfer electron affinity sensitizers photochemical generative of reactive oxygen species reactive nitrogen species enediyne rearrangements phenoxyl radicals a unique compilation on the cutting edge of our understanding radical and radical ion reactivity in nucleic acid chemistry provides an unparalleled resource to student and professional researchers in such fields as organic chemistry biochemistry molecular biology and physical chemistry as well as the industries associated with these disciplines

biochemistry the chemical reactions of living cells is a well integrated up to date reference for basic chemistry and underlying biological phenomena biochemistry is a comprehensive account of the chemical basis of life describing the amazingly complex structures of the compounds that make up cells the forces that hold them together and the chemical reactions that allow for recognition signaling and movement this book contains information on the human body its genome and the action of muscles eyes and the brain thousands of literature references provide introduction to current research as well as historical background contains twice the number of chapters of the first edition each chapter contains boxes of information on topics of general interest

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