

## Adhesion Science Rsc Paperbacks

Adhesion Science The Science of Ice Cream The Misuse of Drugs Act Chemical Formulation A History of Beer and Brewing Life Saving Drugs A Working Method Approach for Introductory Physical Chemistry Calculations Food Flavours The Chemistry of Fireworks Principles of Thermal Analysis and Calorimetry Food Chemical Engineering Abstracts Understanding Batteries The Science Teacher Basic Principles of Colloid Science Mass Spectrometry Bulletin Chemistry International The Practical Impact of Science on Near Eastern and Aegean Archaeology British Book News Journal of the Chemical Society John Comyn Chris Clarke Leslie A. King Tony Hargreaves Ian Spencer Hornsey J. Mann Brian Murphy Carolyn Fisher Michael S. Russell Peter J. Haines T.P. Coulitate R. M. Dell Douglas Hugh Everett Scott Pike

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the use of adhesives is widespread and growing and there are few modern artefacts from the simple cereal packet to the jumbo jet that are without this means of joining adhesion science provides an illuminating account of the science underlying the use of adhesives a branch of chemical technology which is fundamental to the science of coatings and composite materials and to the performance of all types of bonded structures this book guides the reader through the essential basic polymer science and the chemistry of adhesives in use at present it

discusses surface preparation for adhesive bonding and the use of primers and coupling agents there is a detailed chapter on contact angles and what can be predicted from them a simple guide on stress distribution joints and how this relates to testing is included it also examines the interaction of adhesives and the environment including an analysis of the resistance of joints to water oxygen and ultra violet light adhesion science provides a comprehensive introduction to the chemistry of adhesives and will be of interest not only to chemists but also to readers with a background in physical or materials science

processing dairy and related products

in recent years the use of illegal substances has increased particularly designer drugs which have rapidly become part of youth culture the need for all involved in drug control to have up to date information about the subject has never been greater this book helps meet this need by providing a chemical background to the legal controls on drugs of abuse although focussed on the uk some of the provisions of the misuse of drugs act derive from international treaties the discussion of technical aspects is therefore of wider relevance apart from the act itself the book also deals with certain aspects of the misuse of drugs regulations there is detailed coverage of designer drugs and the generic legislation that was introduced to tackle them the more recent addition of 35 ecstasy like substances is covered in depth the significance to the legislation of terms such as salt base stereoisomer ester ether derivative homologue and isotope are described and the text is supplemented by 23 tables and over 80 chemical structures there are eleven appendices covering topics such as precursor chemicals related legislation stated cases sentencing guidelines and the chemical characteristics of commonly abused drugs up to date lists of controlled drugs with cross references to their status in un treaties are provided and a number of pending and other possible changes to the act are included together with a guide to nomenclature and synonyms although primarily aimed at forensic scientists this book will be of great benefit to all bodies concerned with drug control including the police customs officers lawyers and government departments

chemical formulation can be traced back to stone age times when hunter gatherers attached

flint arrowheads to shafts using a resin made from birch bark and beeswax today formulated preparations are part of everyday life formulations based on surfactants are by far the most prolific from shampoos and shower gels to emulsion paint and polishes this book discusses the chemical technology of surfactants and related chemicals using over forty examples of everyday products some basic theory on surface chemistry molecular interactions and surfactant function is included to aid understanding chemical formulation an overview of surfactant based preparations used in everyday life then goes on to look at wider aspects such as surfactant manufacture raw materials environment sustainability analysis and testing throughout common chemical names are used for formulation chemicals further aiding the readability of the book bridging the gap between theory and application this book will be invaluable to anyone wishing to broaden their knowledge of applied chemistry including students on a level btec and technician courses it will also be of benefit to those new to the formulation industry

a history of beer and brewing provides a comprehensive account of the history of beer research carried out during the last quarter of the 20th century has permitted us to re think the way in which some ancient civilizations went about their beer production there have also been some highly innovative technical developments many of which have led to the sophistication and efficiency of 21st century brewing methodology a history of beer and brewing covers a time span of around eight thousand years and in doing so stimulates the reader to consider how and why the first fermented beverages might have originated establishes some of the parameters that encompass the diverse range of alcoholic beverages assigned the generic name beer considers the possible means of dissemination of early brewing technologies from their near eastern origins the book is aimed at a wide readership particularly beer enthusiasts however the use of original quotations and references associated with them should enable the serious scholar to delve into this subject in even greater depth

in 1900 only a handful of drugs morphine quinine aspirin etc had genuine efficacy but had little value for bacterial or viral infections or cancer these conditions were usually untreatable now there are literally thousands of drugs which offer cures or greatly extended life spans for

those with life threatening conditions life saving drugs the elusive magic bullet describes the discovery and development of antibacterial anti viral and anti cancer drugs the book highlights the colourful characters behind the inventions and the huge improvements in quality of life and life expectancy that these drugs have produced emphasis is given to the new drugs that have emerged as a result of knowledge of the human genome and the ways in which the newer drugs are being designed to tackle disease particularly cancer at the genetic level chemical structures are provided for all of the key drugs and the book is well illustrated life saving drugs the elusive magic bullet can be read as a history of drug development during the past 100 years by those with only a passing knowledge of chemistry for anyone entering the medical profession pharmacy or nursing it will provide a superb basic knowledge of all drugs they are ever likely to meet including their modes of action for the chemist or medicinal chemist it will provide the fundamental knowledge of life saving drugs that they all should know and for the non scientist who wants to know about super bugs sars ebola and all of the wonderful advances in treating cancer it is illuminating and easy to read

a working method approach for introductory physical chemistry calculations is a concise inexpensive introduction to first year chemistry that is aimed at students who are weak in chemistry or have no chemistry on entry to university such students usually find physical chemistry the most difficult part of the chemistry course and within this section numerical problem solving is an additional difficulty the text should also be invaluable to first year intending chemists this text provides an introduction to physical chemistry and the gas laws followed by chapters on thermodynamics chemical equilibrium electrochemistry and chemical kinetics each section involves a brief introduction followed by a representative examination question which is broken down into a proposed working method both short multiple choice questions and related full examination type questions are included this book will prove invaluable to students who need encouragement in a logical approach to problem solving in physical chemistry teaching them to think for themselves when faced with a problem

how does the nose know what it smells how do we taste foods what gives foods their characteristic flavours how do the methods of food preparation and processing change the

flavours of foods food flavours answers these questions and much more in a clear and understandable manner describing the composition of flavour compounds and the contributions they make to our sensory experiences the book begins with the chemical reactions by which chemical compounds develop in plants and continues through the processing and preparation of foods it then turns to our chemical sensory systems to describe the recognition and neural processing of these compounds in the nervous system and the reactions that we have to flavours the way that chemical qualities give foods their characteristic flavours and the ways various methods of food preparation and preservation affect those compounds and the resulting flavours are dealt with in detail both from a chemical and a biological aspect throughout food flavours provides special in depth coverage of taste odour physiology and it contains a unique chapter providing a learning and problem solving technique that will prove invaluable to students in all areas of food science as well as in biological organic and analytical chemistry and will be a good addition to any food technologist s bookshelf

aimed a level students this book discusses the theory of fireworks in terms of well known scientific concepts wherever possible in a concise and easy to understand style

the use of thermal and calorimetric methods has shown rapid growth over the last two decades in an increasingly wide range of applications in addition a number of powerful new techniques have been developed this book supplies a concise and readable account of the principles experimental apparatus and practical procedures used in thermal analysis and calorimetric methods of analysis brief accounts of the basic theory are reinforced with detailed applications of the methods and contemporary developments also included is information on standard test methods and manufacturers written by acknowledged experts principles of thermal analysis and calorimetry is up to date wide ranging and practical it will be an important source of information for many levels of readership in a variety of areas from students and lecturers through to industrial and laboratory staff and consultants

sugars polysaccharides lipids proteins colours flavours vitamins preservatives undesirables

minerals water

dell formerly with the british atomic energy research establishment and rand with the csiro in australia commemorate the bicentenary of alessandro volta s invention of the first battery they write primarily for engineers and technicians who are responsible for specifying procuring or maintaining batteries but keep the electrochemistry as simple as possible for the benefit of non chemists c book news inc

some issues are accompanied by a cd rom on a selected topic

born from a workshop series entitled the practical impact of science on field archaeology this volume presents the ideas of students and researchers from north america europe and israel on the growing impact of science on archaeology in the eastern mediterranean its main focus is to promote interdisciplinary approaches to archaeology with special attention to the sciences and to demonstrate the wealth of knowledge that can be obtained when these ordinarily isolated subject areas are combined through these papers the promise of future collaboration and the benefit to archaeology is clearly seen

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