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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

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

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

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

as a source of detailed information on the chemistry of food this book is without equal it investigates components which are present in large amounts carbohydrates fats proteins minerals and water and also those that occur in smaller quantities pigments flavours vitamins and preservatives the fourth edition has been extensively rewritten to bring it right up to date with many of the figures also having been redrawn a number of new topics many of which will be of particular interest to nutritionists have been introduced including modified starches naturally occurring antioxidants the health benefits of broccoli and the production of glucose syrup

topics of special interest to more advanced students are presented separately and the structural formulae of around 600 food components are given this book will be of particular interest to students and teachers of food science and nutrition courses in universities colleges of further education and schools its accessible style also ensures that anyone with an interest in food issues will find it invaluable extracts from reviews of 3rd edition filled me with delight curiosity and wonder all of the chemistry is very clear and thorough i heartily recommend it the chemical educator october 1997 chemistry comes alive when an expert like tom coulter links it to food science education in chemistry november 1997

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 at 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

this book provides an up to date insight into the chemistry behind the colour of the dyes and pigments that make our world so colourful the impressive breadth of coverage starts with a dip into the history of colour science colour chemistry then goes on to look at the structure and synthesis of the various dyes and pigments along

with their applications in the traditional areas of textiles coatings and plastics and also the ever expanding range of high tech applications also discussed are some of the environmental issues associated with the manufacture and use of colour the broad and balanced coverage presented in this book makes it ideal for students and graduates in addition many specialists in industry or academia will also benefit from the overview of the subject that is provided

dell formerly with the british atomic energy research establishment and rand with the csiro in australia commemorate the bicentenary of alassandro 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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