

Comprehensive Experimental Chemistry By V K Ahluwalia

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A Textbook of Organic Chemistry
Organic Reactions and Their Mechanisms
Comprehensive Practical Organic Chemistry
Reduction in Organic Synthesis
Energy and Environment
Advanced Experimental Organic Chemistry
Stereochemistry of Organic Compounds
Organic Reaction Mechanisms
Green Solvents for Organic Synthesis
College Practical Chemistry
Intermediates for Organic Synthesis
Drugs
Alkaloids
Biomolecules
Medicinal Chemistry
The Environment
Green Chemistry
Advanced Environmental Chemistry
Comprehensive Experimental Chemistry
Proceedings of the Indian National Science Academy
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emphasis on structure activity relationship molecules in 3 d and spectroscopic methods based on homologous

series provides a comprehensive coverage of nomenclature structure and properties of organic compounds including aromaticity aromatic substitution and orientation and natural products also introduces the reader to pharmaceuticals pesticides and enzymes each chapter accompanied with problems

this textbook is intended for undergraduate and graduate students pursuing courses in chemistry and allied fields it includes fundamental concepts equations involved in organic reactions chemical bonds ionic and covalent bonds hybridization representation of a chemical reaction and mechanism of organic reactions the book also discusses the displacement of bonding electrons involving inductive effect electromeric effect mesomeric effect hyperconjugative effect and resonance a number of organic reactions involving formation of intermediates such as carbocations carbanions free radicals carbenes nitrenes and benzyne have also been included it also discusses different types of reagents involved in a chemical reactions along with types of additional reactions and its detailed mechanism the book also includes the use of pedagogical elements such as multiple choice questions and end of chapter exercises to aid self learning among students

this book discusses some of the reduction agents and processes involved in organic synthesis such as catalytic hydrogenation homogeneous catalytic hydrogenation asymmetric catalytic hydrogenations hydride transfer reagents dissolving metal reductions and non metallic reducing agents it further covers the topics of photochemical reductions enzymatic or microbial reduction reductions of specific type of organic compounds including hydrocarbons hydrogenolysis enzymatic or microbial reduction and some reductions under benign condition this book is of immense use to undergraduate and postgraduate students of organic chemistry it is also a useful reference book for researchers involved in organic synthesis

energy is important for the survival of life forms on earth while energy exists in different forms fossil fuels one of the forms of energy source have played an important role in the history of human development the widespread use of fossil fuels has severely affected the environment climate change and global warming the outcome of the extensive use of fossil fuels have forced us to reimagine a fossil fuel free earth to save the planet earth scientists are urging humans to make efforts to contain the rising global temperature below 2 c by reducing emissions from fossil fuel energy and environment discusses various forms of energy it examines environmental impacts of energy generation

and how non renewable sources of energy contributes significantly to environmental pollution in the book the role of renewable energy sources in mitigating global problem of environmental pollution is also discussed at length it also elaborates on storage of energy an important subject in the context of rising energy demands of the present world

aimed at undergraduate and post graduate students and aligned with the curricula across universities this book details the fundamental concepts in organic chemistry including qualitative analysis of organic compounds methods for identifying single compounds and mixtures with detailed explanations of tests derivative preparations and spot tests for functional groups and elements are discussed microwave assisted synthesis is also included spectrometric methods techniques like ir uv nmr and mass spectrometry are explained with practical examples for the analysis of compound structures and applications of these techniques practical applications chapters on organic compound preparation natural product isolation quantitative estimations and chromatographic techniques for purification are included the subject matter of this book also includes self assessment questions for enhanced understanding and practice print edition not for sale in south asia india sri lanka nepal bangladesh pakistan or bhutan

this textbook provides a simple approach to understand the various complex aspects of stereochemistry it deals with basic static stereochemistry and gives an overview of the different isomeric forms and nomenclatures with simple writing style and many examples this book covers the topics such as stereochemistry of hydrocarbons alkenes cycloalkenes optically active compounds trivalent carbon fused bridged and caged rings and related compounds this textbook also covers the additional topics such as optical rotatory dispersion and circular dichroism stereochemistry of elimination reactions substitution reactions rearrangement reactions and pericyclic reactions the book includes pedagogical features like end of chapter problems and key concepts to help students in self learning the textbook is extremely useful for the senior undergraduate and postgraduate students pursuing course in chemistry especially organic chemistry besides this book will also be a useful reference book for professionals working in various chemical industries biotechnology bioscience and pharmacy

this book written explicitly for graduate and postgraduate students of chemistry provides an extensive coverage of various organic reaction and rearrangements with emphasis on there application in synthesis a summary of oxidation and reduction of organic compounds is given in tabular form correlation tables for the convenience of

students the most commonly encountered reaction intermediates are dealt with applications of organic reagents illustrated with examples and problems at the end of each chapter will enable students to evaluate their understanding of the topic

solvents play an important role in organic synthesis most of the common organic solvents which have been used for organic synthesis include benzene chloroform toluene carbon tetrachloride etc most of these are volatile voc and have undesirable properties like toxicity or being harmful to the environment or may be obtained from non renewable petroleum sources this book describes some of the most important green solvents their merits and demerits these green solvents include water supercritical carbon dioxide ionic liquids polyethylene glycol and its solutions and the fluorous phase technique a large number of representative synthetic applications for each of the green solvents are described

the intermediates described in this book include different types of phenols aldehydes carboxylic acids and ketones acetophenones w substituted acetophenones propiophenones butyrophenones benzophenones phenyl ketones and some miscellaneous ketones the preparation of heterocyclic compounds o containing s containing n containing n s containing is also described the synthesis of certain miscellaneous compounds of the type benzyl cyanides b ketoesters chalcones naphthaquinones benzoquinones stilbene and certain catalysts and reagents required for organic synthesis are also described the present book aims to make available detailed procedures for the synthesis of various intermediates which are generally required by organic chemists working in various universities industries and by the research scholars at different levels no single publication is available describing the intermediates required for organic synthesis attempt has been made to describe the best possible procedures with ample experimental details keeping in mind the maximum yield the authors and their associates have verified all the procedures described

biomolecules also known as molecules of life are essential for sustaining life processes this book presents a study of these crucial biological substances to explore their function structure biological role and synthesis it also expands upon the various types of biomolecules and discusses their individual characteristics the subject matter of this book also covers mucopolysaccharides tertiary structure of proteins caffeine mechanism of enzyme action biosynthesis of

haemoglobin print edition not for sale in south asia india sri lanka nepal bangladesh pakistan or bhutan

this book gives a concise introduction to the chemistry of therapeutically active compounds written in a readable style that makes the information easily accessible the book includes a brief review of drug development spans from the discovery to the final product with emphasis on the description of their pharmacological effects the content is organized by drug class coverage includes existing drugs their biological properties and their quantitative structure activity relationship primarily intended for the students and professionals in the pharmaceutical industry medicinal chemistry assumes little prior knowledge on the subject making it ideal for classroom and training seminar use

the environment is defined perceived and valued diversely by different countries cultures and communities a healthy environment ensures human security which means everyone has the access to food and water employment and livelihood stability resilience to climate change and extreme weather events and also social and political stability as the demand for food fodder fuel and raw material grows it increases the pressure on the environment and the competition for natural resources both human and natural activities have caused the physical chemical and biological degradation of the environment the environment covers the basic components of environment ecology biomes and biodiversity the book gives an analytical understanding of the topics while the book covers major international topics it has a strong focus on india too the book will help candidates appearing for competitive examinations such as civil services it is also extremely useful for readers interested in environment science environment chemistry and related subjects

this book presents a large number of organic reactions performed under green conditions which were earlier performed using anhydrous conditions and various volatile organic solvents the conditions used involve green solvents like water super critical carbon dioxide ionic liquids polymer supported reagents polyethylene glycol and perfluorous liquids a number of reactions have been conducted in solid state without using any solvent most of the reactions have been conducted under microwave irradiations and sonication in large number of reactions catalysts like phase transfer catalysts crown ethers and biocatalysts have been used providing the protocols that every laboratory should adopt this book elaborates the principles of green chemistry and discusses the planning and preparations required to convert to green laboratory techniques it includes applications relevant to practicing

researchers students and environmental chemists this book is useful for students graduate and postgraduate researchers and industry professionals in the area of chemical engineering chemistry and allied fields

this book has been especially written for class xii students under 10 2 pattern of education according to the syllabi prescribed by the cbse and other states boards this book will help the students in acquiring correct skills in practicals and various techniques of all laboratory experiments salient features an introduction to the book is given this describes the laboratory apparatus and instructions and precautions for working in the laboratory simple language and lucid style adequate number of illustrations to explain and to clarify the use of various apparatus used in the laboratory theoretical aspects of each equipment have been discussed along with experiments in volumetric analysis both the normality and molarity concepts are made clear li in quantitative analysis inorganic and organic various tests have been given in a systematic way specimen recordings of experiments are given to help the students to record on their notebooks viva voice questions have been included in each chapter a fairly large number of investigatory projects covering various topics are given selection of projects is carefully made which can be easily performed in school laboratory an appendix describing various chemical hobbies is given which will be extremely helpful to the students for the development of chemical hobbies understanding the basic principles involved and the chemistry of various hobbies an appendix describing some typical chemical exhibits is also given this will help the students to participate in the science fares organized by various agencies these experiments will cultivate interest among the students for learning chemistry an appendix each for the solubility s of various salts atomic weights preparation of various reagents indicator papers and the first aid to be administered in case of accidents is given the syllabi prescribed for class xii students under 10 2 pattern along with distribution of marks is also given

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Introduction

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