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The two-part, fifth edition of Advanced Organic Chemistry has been substantially revised and reorganized for greater clarity. The material has been updated to reflect advances in the field since the previous edition, especially in computational chemistry. Part A covers fundamental structural topics and basic mechanistic types. It can stand-alone; together, with Part B: Reaction and Synthesis, the two volumes provide a comprehensive foundation for the study in organic chemistry. Companion websites provide digital models for study of structure, reaction and selectivity for students and exercise solutions for instructors.

An advanced-level textbook of organic chemistry for the graduate (B.Sc) and postgraduate (M.Sc) students of Indian and foreign universities. This book is a part of the four-volume series, entitled "A Textbook of Organic Chemistry – Volume I, II, III, IV". CONTENTS: CHAPTER 1. Nature of Bonding in Organic molecules: Delocalized Chemical Bonding; Conjugation; Cross Conjugation; Resonance; Hyperconjugation; Tautomerism; Aromaticity in Benzenoid and Nonbenzenoid Compounds; Alternant and Non-Alternant Hydrocarbons; Huckel's Rule: Energy Level of p-Molecular Orbitals; Annulenes; Antiaromaticity; Homo-Aromaticity; PMO Approach; Bonds Weaker than

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Covalent; Addition Compounds: Crown Ether Complexes and Cryptands, Inclusion Compounds, Cyclodextrins; Catenanes and Rotaxanes CHAPTER 2. Stereochemistry: Chirality; Elements of symmetry; Molecules with more than one chiral centre: diastereomerism; Determination of relative and absolute configuration (octant rule excluded) with special reference to lactic acid, alanine & mandelic acid; Methods of resolution; Optical purity; Prochirality; Enantiotopic and diastereotopic atoms, groups and faces; Asymmetric synthesis: Cram's rule and its modifications, Prelog's rule; Conformational analysis of cycloalkanes (upto six membered rings); Decalins; Conformations of sugars; Optical activity in absence of chiral carbon (biphenyls, allenes and spiranes); Chirality due to helical shape; Geometrical isomerism in alkenes and oximes; Methods of determining the configuration CHAPTER 3. Reaction Mechanism: Structure and Reactivity: Types of mechanisms; Types of reactions; Thermodynamic and kinetic requirements; Kinetic and thermodynamic control; Hammond's postulate; Curtin-Hammett principle; Potential energy diagrams: Transition states and intermediates; Methods of determining mechanisms; Isotope effects; Hard and soft acids and bases; Generation, structure, stability and reactivity of carbocations, carbanions, free radicals, carbenes and nitrenes; Effect of structure on reactivity; The Hammett equation and linear free energy

relationship; Substituent and reaction constants; Taft equation
CHAPTER 4. Carbohydrates: Types of naturally occurring sugars; Deoxy sugars; Amino sugars; Branch chain sugars; General methods of determination of structure and ring size of sugars with particular reference to maltose, lactose, sucrose, starch and cellulose. CHAPTER 5. Natural and Synthetic Dyes: Various classes of synthetic dyes including heterocyclic dyes; Interaction between dyes and fibers; Structure elucidation of indigo and Alizarin CHAPTER 6. Aliphatic Nucleophilic Substitution: The SN_2 , SN_1 , mixed SN_1 and SN_2 , SN_i , SN_1' , SN_2' , SN_i' and SET mechanisms; The neighbouring group mechanisms; neighbouring group participation by p and s bonds; anchimeric assistance; Classical and nonclassical carbocations; Phenonium ions; Common carbocation rearrangements; Applications of NMR spectroscopy in the detection of carbocations; Reactivity-effects of substrate structure, attacking nucleophile, leaving group and reaction medium; Ambident nucleophiles and regioselectivity; Phase transfer catalysis. CHAPTER 7. Aliphatic Electrophilic Substitution: Bimolecular mechanisms – SE_2 and SE_i ; The SE_1 mechanism; Electrophilic substitution accompanied by double bond shifts; Effect of substrates, leaving group and the solvent polarity on the reactivity CHAPTER 8. Aromatic Electrophilic Substitution: The arenium ion: mechanism, orientation and reactivity, energy profile

diagrams; The ortho/para ratio, ipso attack, orientation in other ring systems; Quantitative treatment of reactivity in substrates and electrophiles; Diazonium coupling; Vilsmeier reaction; Gattermann-Koch reaction CHAPTER 9. Aromatic Nucleophilic Substitution: The $ArSN_1$, $ArSN_2$, Benzyne and SRN_1 mechanisms; Reactivity – effect of substrate structure, leaving group and attacking nucleophile; The von Richter, Sommelet-Hauser, and Smiles rearrangements CHAPTER 10. Elimination Reactions: The E_2 , E_1 and $E1cB$ mechanisms; Orientation of the double bond; Reactivity – effects of substrate structures, attacking base, the leaving group and the medium; Mechanism and orientation in pyrolytic elimination CHAPTER 11. Addition to Carbon-Carbon Multiple Bonds: Mechanistic and stereochemical aspects of addition reactions involving electrophiles, nucleophiles and free radicals; Regio- and chemoselectivity: orientation and reactivity; Addition to cyclopropane ring; Hydrogenation of double and triple bonds; Hydrogenation of aromatic rings; Hydroboration; Michael reaction; Sharpless asymmetric epoxidation. CHAPTER 12. Addition to Carbon-Hetero Multiple Bonds: Mechanism of metal hydride reduction of saturated and unsaturated carbonyl compounds, acids, esters and nitriles; Addition of Grignard reagents, organozinc and organolithium; Reagents to carbonyl and unsaturated carbonyl compounds; Wittig reaction; Mechanism of condensation reactions

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involving enolates – Aldol, Knoevenagel, Claisen, Mannich, Benzoin, Perkin and Stobbe reactions; Hydrolysis of esters and amides; Ammonolysis of esters.

*A Practical Introduction to Stereochemistry Stereoisomers are compounds with the same chemical formula and connectivity but with different arrangements of their atoms in 3-dimensional space. Stereochemistry encompasses the study of stereoisomers and their properties. Despite having an identical chemical formula, stereoisomers can have drastically different biological, medicinal, and chemical properties. Basic Organic Stereochemistry explains in clear, concise terms the concepts and properties of stereoisomers. Ideal both as a text for advanced undergraduate or graduate students and as a handy guide for researchers in industry, this superb text covers: * Polarimetry and optical rotation * Internal coordinates, configuration, and conformation * Nature of stereoisomers * Barriers between stereoisomers and residual stereoisomers * Symmetry operators and symmetry point groups * Properties of stereoisomers and stereoisomer discrimination * Separation of stereoisomers, resolution, and racemization Suitable for students in organic and biological chemistry, Basic Organic Stereochemistry is unparalleled as a convenient text.*

Spectroscopy of Organic Compounds

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Part A: Structure and Mechanisms

Conformation and Mechanism

(NMR, IR, Mass and UV)

Introduction to Spectroscopy

This book presents the proceedings of the International Conference on Recent Trends in Materials and Devices, which was conceived as a major contribution to large-scale efforts to foster Indian research and development in the field in close collaboration with the community of non-resident Indian researchers from all over the world. The research articles collected in this volume - selected from among the submissions for their intrinsic quality and originality, as well as for their potential value for further collaborations - document and report on a wide range of recent and significant results for various applications and scientific developments in the areas of Materials and Devices. The technical sessions covered include photovoltaics and energy storage, semiconductor materials and devices, sensors, smart and polymeric materials, optoelectronics, nanotechnology and nanomaterials, MEMS and NEMS, as well as emerging technologies.

This book, written explicitly for graduate and postgraduate students of chemistry, provides an extensive coverage of various organic reactions and rearrangements with emphasis on their 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 example problems at the end of each chapter will enable students to evaluate their understanding of them. Organic Spectroscopy presents the derivation of structural information from UV, IR, Raman, ¹H NMR, ¹³C NMR, Mass and ESR spectral data in such a way that stimulates interest of students.

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researchers alike. The application of spectroscopy for structure determination and analysis has seen a phenomenal growth and is now an integral part of Organic Chemistry courses. This book provides a logical, comprehensive, lucid and accurate presentation, thus making it easy to understand through self-study; -Theoretical aspects of spectral techniques necessary for the interpretation of spectra; -Salient features of instrumentation involved in spectroscopic methods; -Useful spectra in the form of tables, charts and figures; -Examples of spectra to familiarize the reader; -Many solved problems to help build competence and confidence; -A separate chapter on 'spectroscopic solutions to structural problems' to emphasize the utility of spectroscopy. Organic Spectroscopy is an invaluable reference for the interpretation of various spectra. It can be used as a basic text for undergraduate and postgraduate students of spectroscopy as well as a practical resource by research chemists. This book will be of interest to chemists and analysts in academia and industry, especially those engaged in the synthesis and analysis of organic compounds including drugs, drug intermediates, agrochemicals, polymers and dyes.

Organic Spectroscopy Through Solved Problems

Stereochemistry and Mechanism Through Solved Problems

Instrumental Methods of Chemical Analysis

Stereochemistry

Biophysical Chemistry

PRINCIPLES AND CHEMICAL APPLICATIONS FOR B.SC. (HONS) POST GRADUATE STUDENTS OF ALL INDIAN UNIVERSITIES AND COMPETITIVE EXAMINATIONS.

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Pratiyogita Darpan (monthly magazine) is India's largest read General Knowledge and Current Affairs Magazine. Pratiyogita Darpan (English monthly magazine) is known for quality content on General Knowledge and Current Affairs. Topics ranging from national and international news/ issues, personality development, interviews of examination toppers, articles/ write-up on topics like career, economy, history, public administration, geography, polity, social, environment, scientific, legal etc, solved papers of various examinations, Essay and debate contest, Quiz and knowledge testing features are covered every month in this magazine.

Presents a new nomenclature and covers recently discovered systems. Includes a detailed study of conformational analysis of acyclic and alicyclic compounds, the relation between conformation and reactivity, and other aspects of stereochemistry, such as substitution, addition and elimination reactions. Includes numerous examples and illustrations from the Natural Product Area.

*NMR, NQR, EPR, and Mössbauer Spectroscopy in Inorganic Chemistry
Stereochemistry of Organic Compounds*

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NMR Spectroscopy

Principles and Applications

Proceedings ICRTMD 2015

The Sixth Edition Of This Widely Used Text Includes New Examples / Spectra / Explanations / Expanded Coverage To Update The Topic Of Spectroscopy. The Artwork And Material In All Chapters Has Been Revised Extensively For Students Understanding. New To This Edition * New Discussion And New Ir, 1H Nmr, 13C Nmr And Ms Spectra. * More Important Basic Concepts Highlighted And Put In Boxes Throughout This Edition. * Chapters On 1H Nmr And 13C Nmr Rewritten And Enlarged. More On Cosy, Hetcor, Dept And Inadequate Spectra. * A Rational Approach For Solving The Structures Via Fragmentation Pathways In Ms. * Increased Power Of The Book By Providing Further Extensive Learning Material In This Revised Edition. * A Quick And An Easy Access To Topics In Ugc Model Curricula. With Its Comprehensive Coverage And Systematic Presentation The Book Would Serve As An Excellent Text For B.Sc. (Hons.) And M.Sc. Chemistry Students. It Provides Knowledge To Excel At Any Level, University Examination, Competitive Examinations E.G. Net And Before Interview Boards.

This text deals with the new concepts and terminology that have been introduced into the treatment of organic stereochemistry over the last decade. Organic reaction mechanisms, as they relate to stereochemistry, are included, and the

pericyclic reaction using the frontier molecular orbital approach is explained. The text does not assume a strong grounding in organic chemistry and will therefore be useful to a broader spectrum of students - both graduate and undergraduate. The volume features numerous illustrations and programmed problems. This book provides an in-depth information on the principles and practices of modern organic chemistry. The traditional functional group organization is retained, and cross-reference of important reactions with the text, as well as solved examples, reinfo

Spectroscopy

Organic Reactions And Their Mechanisms

Supramolecular Chemistry

A Multinuclear Introduction

Bioorganic, Bioinorganic and Supramolecular Chemistry

Though the format evolved in the first edition remains intact, relevant new additions have been inserted at appropriate places in various chapters of the book. Also included are a number of sample and study problems at the end of each chapter to illustrate the approach to problem solving that involve translations of sets of spectra into chemical structures. Written primarily to stimulate the interest of students in spectroscopy and make them aware of the latest developments in this field, this book begins with a general introduction to electromagnetic radiation and molecular spectroscopy. In addition to the usual topics on IR, UV, NMR and Mass spectrometry, it includes substantial material on the currently useful techniques such as

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FT-IR, FT-NMR ¹³C-NMR, 2D-NMR, GC/MS, FAB/MS, Tandem and Negative Ion Mass Spectrometry for students engaged in advanced studies. Finally it gives a detailed account on Optical Rotatory Dispersion (ORD) and Circular Dichroism (CD).

"Biophysical Chemistry is an outstanding book that delivers both fundamental and complex biophysical principles, along with an excellent overview of the current biophysical research areas, in a manner that makes it accessible for mathematically and non-mathematically inclined readers." (Journal of Chemical Biology, February 2009) This text presents physical chemistry through the use of biological and biochemical topics, examples and applications to biochemistry. It lays out the necessary calculus in a step by step fashion for students who are less mathematically inclined, leading them through fundamental concepts, such as a quantum mechanical description of the hydrogen atom rather than simply stating outcomes. Techniques are presented with an emphasis on learning by analyzing real data. Presents physical chemistry through the use of biological and biochemical topics, examples and applications to biochemistry Lays out the necessary calculus in a step by step fashion for students who are less mathematically inclined Presents techniques with an emphasis on learning by analyzing real data Features qualitative and quantitative problems at the end of each chapter All art available for download online and on CD-ROM

Spectroscopic technique has been recognized as an essential part of the curriculum of Chemistry course in all universities. The book will be highly useful to both students and the teachers alike.

NMR in Chemistry

MOLECULAR STRUCTURE AND SPECTROSCOPY

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Modern Organocopper Chemistry

Basic Organic Stereochemistry

Physical Methods for Chemists

Designed to serve as a textbook for postgraduate students of physics and chemistry, this second edition improves the clarity of treatment, extends the range of topics, and includes more worked examples with a view to providing all the material needed for a course in molecular spectroscopy—from first principles to the very useful spectral data that comprise figures, charts and tables. To improve the conceptual appreciation and to help students develop more positive and realistic impressions of spectroscopy, there are two new chapters—one on the spectra of atoms and the other on laser spectroscopy. The chapter on the spectra of atoms is a detailed account of the basic principles involved in molecular spectroscopy. The chapter on laser spectroscopy covers some new experimental techniques for the investigation of the structure of atoms and molecules. Additional sections on interstellar molecules, inversion vibration of ammonia molecule, fibre-coupled Raman spectrometer, Raman microscope, supersonic beams and jet-cooling have also been included. Besides worked-out examples, an abundance of review questions, and end-of-chapter problems with answers are included to aid students in testing their knowledge of the material contained in each chapter. Solutions manual containing the complete worked-out solutions to chapter-end problems is available for instructors.

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The Third Edition Of Quantum Chemistry Is A Fully Updated Textbook Covering The Model Syllabus For M.Sc General Course Recently Circulated By Ugc To All Indian Universities. The Book Contains The Developments That Led To The Evolution Of Quantum Mechanics As Well As The Basic Concepts Of Quantum Mechanical Formalism In As Simple Terms As Possible. The Exposition Of The Principles Is Followed By Application To Translational Motion Of Micro Particles (With Infinite And Finite Barriers), Vibrational And Rotational Motions, Perturbation And Variation Methods Atomic Structure, Etc. Theories Of Chemical Bond - Molecular Orbital And Valence Bond - In Diatomic As Well As Polyatomic Molecules Are Elaborately Expanded With Sufficient Examples. In Polyatomic Molecules, The Apparently Complicated Theories - Hückel, Configuration Interaction, Extended Huckel Theory, Etc. Are Presented With Utmost Clarity And Examples. The Chapter On Molecular Symmetry And Group Theory, Which Find Frequent Applications In Simplifying Problems Particularly In MO Treatment, Is An Additional Feature. Steps Involved In Mathematical Derivations Are Presented In Full Leaving No Ambiguity. Illustrative Examples And Practice Problems, With Hints Provided, Are Given In Every Chapter. The Book May Prove To Be A Self-Educator.

Spectroscopy of Organic Compounds New Age International

Photochemistry And Pericyclic Reactions

Basic Principles, Concepts and Applications in Chemistry

Recent Trends in Materials and Devices

Textbook of Organic Chemistry

Organocopper compounds are now an integral part of every modern synthesis laboratory, allowing important stages of synthesis to be carried out in an elegant fashion. Yet a certain amount of experience is needed if they are to be used effectively. Non-experts in the field often have difficulty in choosing the most suitable reagent for a particular substrate and the prerequisites for the reaction. This manual, edited by Norbert Krause, answers such questions, since it contains all the useful tips and tricks on organocopper compounds - information gained from personal experience by the international team of authors. This allows those working in laboratories in both academia and industry to determine the optimal reagent for their needs using the substrates available for reaction and the desired products. The result is a more effective use of these synthesis tools in everyday laboratory practice.

This Book Is Especially Designed According To The Model Curriculum Of M.Sc. (Prev.) (Pericyclic Reactions) And M.Sc. (Final) (Photochemistry Compulsory Paper Viii) Suggested By The University Grants Commission, New Delhi. As Far As The Ugc Model Curriculum Is Concerned, Most Of

The Indian Universities Have Already Adopted It And The Others Are In The Process Of Adopting The Proposed Curriculum. In The Present Academic Scenario, We Strongly Felt That A Comprehensive Book Covering Modern Topics Like Pericyclic Reactions And Photochemistry Of The Ugc Model Curriculum Was Urgently Needed. This Book Is A Fruitful Outcome Of Our Aforesaid Strong Feeling. Besides M.Sc. Students, This Book Will Also Be Very Useful To Those Students Who Are Preparing For The Net (Csr), Slet, Ias, Pcs And Other Competitive Examinations. The Subject Matter Has Been Presented In A Comprehensive, Lucid And Systematic Manner Which Is Easy To Understand Even By Self Study. The Authors Believe That Learning By Solving Problems Gives More Competence And Confidence In The Subject. Keeping This In View, Sufficiently Large Number Of Varied Problems For Self Assessment Are Given In Each Chapter. Hundred Plus Problems With Solutions In The Last Chapter Is An Important Feature Of This Book.

Introduce your students to the latest advances in spectroscopy with the text that has set the standard in the field for more than three decades:

INTRODUCTION TO SPECTROSCOPY, 5e, by Donald L. Pavia, Gary M. Lampman, George A. Kriz, and James R. Vyvyan. Whether you use the book as a primary text in an upper-level spectroscopy course or as a companion

book with an organic chemistry text, your students will receive an unmatched, systematic introduction to spectra and basic theoretical concepts in spectroscopic methods. This acclaimed resource features up-to-date spectra; a modern presentation of one-dimensional nuclear magnetic resonance (NMR) spectroscopy; an introduction to biological molecules in mass spectrometry; and coverage of modern techniques alongside DEPT, COSY, and HECTOR. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Quantum Chemistry

Part B: Reactions and Synthesis

Advanced Organic Chemistry

Organic Reaction Mechanisms

Organic Spectroscopy

The text is ideal for under and postgraduate students of biophysical chemistry and as a handy guide for researchers in industry and biotechnology. This text covers: The study of biological cell and its organisation Bioenergetics Statistical Mechanics in biopolymers Forces involved in biopolymer interactions Cell membrane and solute transport Biopolymers and their molecular weights Thermodynamics of biopolymer solutions Diffraction methods and study of macromolecules.

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Basic principles from across the domain of chemistry Most of the background knowledge is accessible to students without a need to go back to texts on chemistry/biochemistry Provides material in a clear, straightforward and simple style.

Supramolecular chemistry is 'chemistry beyond the molecule' - the chemistry of molecular assemblies and intermolecular bonds. It is one of today's fastest growing disciplines, crossing a range of subjects from biological chemistry to materials science; and from synthesis to spectroscopy. Supramolecular Chemistry is an up-to-date, integrated textbook that tells the newcomer to the field everything they need to know to get started. Assuming little in the way of prior knowledge, the book covers the concepts behind the subject, its breadth, applications and the latest contemporary thinking in the area. It also includes coverage of the more important experimental and instrumental techniques needed by supramolecular chemists. The book has been thoroughly updated for this second edition. In addition to the strengths of the very popular first edition, this comprehensive new version expands coverage into a broad range of emerging areas. Clear explanations of both fundamental and nascent concepts are supplemented by up-to-date coverage of exciting emerging trends in the literature. Numerous examples and problems are included throughout the book. A system of "key references" allows rapid access to the secondary literature, and of course comprehensive primary literature citations are provided. A selection of the topics covered is listed below. Cation, anion, ion-pair and molecular host-guest chemistry Crystal engineering Topological entanglement

Clathrates Self-assembly Molecular devices Dendrimers Supramolecular polymers Microfabrication Nanoparticles Chemical emergence Metal-organic frameworks Gels Ionic liquids Supramolecular catalysis Molecular electronics Polymorphism Gas sorption Anion-pinteractions Nanochemistry Supramolecular Chemistry is a must for both students new to the field and for experienced researchers wanting to explore the origins and wider context of their work. Review: "At just under 1000 pages, the second edition of Steed and Atwood's Supramolecular Chemistry is the most comprehensive overview of the area available in textbook form...highly recommended." —Chemistry World, August 2009

Problems and Solution in Proton NMR Spectroscopy

Pharmaceutical, Medicinal and Natural Product Chemistry

Stereochemistry & Mechanism Through solved Problems

Elementary Organic Spectroscopy

A Textbook of Organic Chemistry – Volume 1

Nuclear magnetic resonance (NMR) spectroscopy is one of the most powerful and widely used techniques in chemical research for investigating structures and dynamics of molecules. Advanced methods can even be utilized for structure determinations of biopolymers, for example proteins or nucleic acids. NMR is also used in medicine for magnetic resonance imaging (MRI). The method is based on spectral lines of different atomic nuclei that are excited when a strong magnetic field and a radiofrequency transmitter are applied. The method is very sensitive to the

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features of molecular structure because also the neighboring atoms influence the signals from individual nuclei and this is important for determining the 3D-structure of molecules. This new edition of the popular classic has a clear style and a highly practical, mostly non-mathematical approach. Many examples are taken from organic and organometallic chemistry, making this book an invaluable guide to undergraduate and graduate students of organic chemistry, biochemistry, spectroscopy or physical chemistry, and to researchers using this well-established and extremely important technique. Problems and solutions are included.

This Revised Edition Includes Several New Topics To Make The Treatment More Comprehensive And Contemporary. The Exposition In Several Chapters Has Also Been Recast To Facilitate An Easier Understanding Of The Subject. * Molecular Orbital And Bonding Thoroughly Explained. * Resonance Structures And Allylic Systems Included. * Organic Acids And Bases Explained In Detail With Additional Examples. * Discussion Of Organic Reactions Considerably Expanded. * Various Additional Dimensions Of Photochemistry Highlighted. * A New Chapter On Special Topics Included. With Its Clear And Systematic Presentation, This Is An Essential Text For B.Sc. And M.Sc. Chemistry Students.

Stereochemistry of Organic Compounds The first fully referenced, comprehensive book on this subject in more than thirty years, Stereochemistry of Organic Compounds contains up-to-date coverage and insightful exposition of all important

new concepts, developments, and tools in the rapidly advancing field of stereochemistry, including: * Asymmetric and diastereoselective synthesis * Conformational analysis * Properties of enantiomers and racemates * Separation and analysis of enantiomers and diastereoisomers * Developments in spectroscopy (including NMR), chromatography, and molecular mechanics as applied to stereochemistry * Prostereoisomerism * Conceptual foundations of stereochemistry, including terminology and symmetry concepts * Chiroptical properties Written by the leading authorities in the field, the text includes more than 4,000 references, 1,000 illustrations, and a glossary of stereochemical terms.

Pratiyogita Darpan

PHARMACEUTICAL, MEDICINAL AND NATURAL PRODUCT CHEMISTRY provides an overview of structural features and functional groups of different classes of pharmacologically active natural products, synthetic drugs and drugs from microorganisms, animals and plants and their biological activities. The text presents the concepts which are central to the study of drug action of the natural materials themselves and as lead compounds and drug production (DNA Recombinant Technology) supported by

logical chemical, biochemical and mechanistic principles. The material presented guides the reader through biosynthetic and metabolic pathways, which demonstrates their unique integration. The book also contains material on the synthesis of some drugs structure, synthesis, biosynthesis and conformational analysis of some of the more important members of terpenoids, steroids, carotenoid alkaloids, flavanoids, purine and pyrimidines along with their medicinal significance. Students of organic chemistry, pharmacy and medicinal chemistry will find this book an invaluable source.