

# CHEMISTRY

## I- Semester

Paper-I(T)    Course No.: CHEM-111    Marks: [55+15]    Lecture: 35 Hours

### *Organic Chemistry-I*

#### UNIT I

##### Structure and Bonding

Nature of Covalent bond and orbital representation of simple molecules (as listed below); hybridization of orbitals, implications of hybridizations on the concept of bond-length, bond-energy, bond-angles and shape of the molecules with the following examples:- VSEPR Theory.

(i)  $\text{CH}_4$ ,  $\text{H}_3\text{O}^+$ ,  $\text{CH}_3^-$ ,  $\text{RNH}_2$  (ii)  $\text{C}_2\text{H}_4$ ,  $\text{CH}_3^+$ ,  $\text{BF}_3$ ,  $\text{AlCl}_3$ , Carbonyl Compounds and (iii) Acetylene,  $\text{R-CN}$ , allene and ketone.

Electronegativity, polarity of bonds, inductive-effect in substituted aliphatic carboxylic acids, hydrogen-bonding and its effect on boiling point and solubility of organic molecules, intermolecular and intramolecular hydrogen bonding.

#### UNIT II

##### Electron-displacement effects in organic molecules and the basic concept of reaction mechanism

Role of inductive effect, Electromeric-effect, Mesomeric-effect or Resonance, hyperconjugation, aromaticity, hydrogen-bonding, curved arrow notation, drawing electron movements with arrows, half headed and double-headed arrows, homolytic and heterolytic bond-breaking, Types of reagents-electrophiles & nucleophiles. Energy considerations, reactive intermediates-carbocations, free-radicals, carbanions, carbenes, arynes, the stability of reaction intermediates.

Introduction to Aromaticity.

##### UNIT III Stereochemistry of organic molecules: Concept of Isomerism, types of Isomerism.

(a) Concept of homo and heterotopocity, prostereoisomerism.

(b) Geometrical Isomerism: E & Z system of nomenclature, geometrical isomerism in oximes and alicyclic compounds.

(c) Optical Isomerism : Elements of symmetry, molecular chirality, enantiomers, stereogeniccentre, optical activity, properties of enantiomers, chiral and achiral molecules with two stereogeniccentres, diastereo isomers, meso compounds, resolution of enantiomers, inversion and retention of configurations, Racemization. Relative and absolute configuration; chemoselectivity, regioselectivity, stereoselectivity(basic concept).

(d) Sequence rules, D & L and R & S system of nomenclature.

# Mcgraw Hill Organic Chemistry Solutions Manual Chandra

**Rachel Sandford**



## **Mcgraw Hill Organic Chemistry Solutions Manual Chandra:**

**Green Metrics, Volume 11** ,2018-05-07 Volume 11 of the Handbook of Green Chemistry series identifies explains and expands on green chemistry and engineering metrics describing how the two work together backed by numerous practical applications Up to date and authoritative this ready reference covers the development and application of sustainable chemistry along with engineering metrics in both academia and industry providing the latest information on fundamental aspects of metrics practical realizations and example case studies Additionally it outlines how metrics have been used to facilitate developments in sustainable and green chemistry The different concepts of and approaches to metrics are applied to fundamental problems in chemistry and the focus is firmly placed on their use to promote the development and implementation of more sustainable and green chemistry and technology in the production of chemicals and related products Starting with molecular design followed by chemical route evaluation chemical process metrics and product assessment by the end readers will have a complete set of metrics to choose from as they move a chemical conception to final product Of high interest to academics and chemists working in industry     The British National Bibliography Arthur James Wells,1993

**Books in Print Supplement** ,2002     **Indian Books in Print** ,2002     **Solutions Manual to accompany Organic Chemistry** Francis Carey,Neil Allison,2007-01-04 Written by Robert C Atkins and Francis A Carey the Solutions Manual provides step by step solutions for all end of chapter problems that guides the student through the reasoning behind each problem in the text There is also a self test at the end of chapter designed to assess the student s mastery of the material

**The Journal of Industrial and Engineering Chemistry** ,1918     **Solutions Manual for Organic Chemistry** Francis A. Carey, Dr.,2016-03-09 The Solutions Manual provides step by step solutions guiding the student through the reasoning behind each problem in the text There is also a self test section at the end of each chapter which is designed to assess the student s mastery of the material     **Indian Book Industry** ,1985     **Solutions Manual Organic Chemistry** Francis Carey,Neil Allison,2010-02-24 Written by Neil Allison the Solutions Manual provides step by step solutions for all end of chapter problems which guide students through the reasoning behind each problem in the text     Journal of Industrial and Engineering Chemistry ,1918     Forthcoming Books Rose Arny,2003-12     Loose Leaf Student Solutions Manual Organic Chemistry Francis Carey,Robert Giuliano,2016-07-01 The Solutions Manual provides step by step solutions guiding the student through the reasoning behind each problem in the text There is also a self test section at the end of each chapter which is designed to assess the student s mastery of the material     Solutions Manual [for] Organic Chemistry, Sixth Edition [by] L.G. Wade Jan William Simek,2006 Companion manual for the the organic chemistry textbook by L G Wade     *Scientific and Technical Books and Serials in Print* ,1989     **American Book Publishing Record** ,1976     **International Books in Print** ,1997     **Cumulated Index to the Books** ,1960     *Environmental Toxicology and Chemistry* ,1999     Whitaker's Cumulative Book List ,1979     Solutions Manual and Study Guide [for] Introduction to Organic Chemistry, Second Edition

[by] Andrew Streitwieser, Jr. [and] Clayton H. Heathcock Paul A. Bartlett, 1981

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