

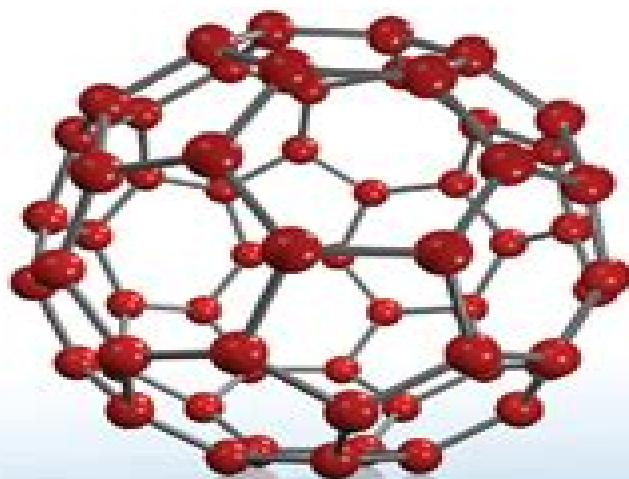
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ระดับมหาวิทยาลัยและวิทยาศาสตร์สุขภาพของต่างประเทศ

# เคมีอินทรีย์ <sup>ฉบับที่</sup> 1

## Fundamentals of Organic Chemistry 1

รองศาสตราจารย์ ดร.สมพงษ์ จันทรโพธิ์ศรี



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# Fundamentals Of Organic Chemistry Volume 1

**Francesco Nicotra**



## **Fundamentals Of Organic Chemistry Volume 1:**

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**FUNDAMENTALS OF CHEMISTRY - Volume II** Sergio Carrà, 2009-05-05 Fundamentals of Chemistry theme in two volumes is a component of Encyclopedia of Chemical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme is organized into six different topics which represent the main scientific areas History and Fundamentals of Chemistry Chemical Experimentation and Instrumentation Theoretical Approach to Chemistry Chemical Thermodynamics Rates of Chemical Reactions Chemical Synthesis of Substances These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

*Environmental Organic Chemistry* Rene P. Schwarzenbach, Philip M. Gschwend, Dieter M. Imboden, 2016-10-12

Examines in a pedagogical way all pertinent molecular and macroscopic processes that govern the distribution and fate of organic chemicals in the environment and provides simple modeling tools to quantitatively describe these processes and their interplay in a given environmental system Treats fundamental aspects of chemistry physics and mathematical modeling as applied to environmentally relevant problems and gives a state of the art account of the field Teaches the reader how to relate the structure of a given chemical to its physical chemical properties and intrinsic reactivities Provides a holistic and teachable treatment of phase partitioning and transformation processes as well as a more focused and tailor made presentation of physical mathematical and modeling aspects that apply to environmental situations of concern Includes a large number of questions and problems allowing teachers to explore the depth of understanding of their students or allowing individuals who use the book for self study to check their progress Provides a companion website which includes solutions for all problems as well as a large compilation of physical constants and compound properties Chemical Sciences in the 20th Century Carsten Reinhardt,2008-09-26 Chemistry in the last century was characterized by spectacular growth and advances stimulated by revolutionary theories and experimental breakthroughs Yet despite this rapid development the history of this scientific discipline has achieved only recently the status necessary to understand the effects of chemistry on the scientific and technological culture of the modern world This book addresses the bridging of boundaries between chemistry and the other classical disciplines of science physics and biology as well as the connections of chemistry to mathematics and technology Chemical research is represented as an interconnected patchwork of scientific specialties and this is shown by a mixture of case studies and broader overviews on the history of organic chemistry theoretical chemistry nuclear and cosmochemistry solid state chemistry and biotechnology All of these fields were at the center of the development of twentieth century chemistry and the authors cover crucial topics such as the emergence of new subdisciplines and research fields the science technology relationship and national styles of scientific work This monograph represents a unique treasure trove for general historians and historians of science while also appealing to those interested in the theoretical background and development of modern chemistry **Organic and Bio-molecular Chemistry - Volume II** Francesco Nicotra,2009-04-14 Organic And Bio Molecular Chemistry is the component of Encyclopedia of Chemical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Organic And Bio Molecular Chemistry in the Encyclopedia of Chemical Sciences Engineering and Technology Resources deal with the discipline that studies the molecules of life which are made by carbon atoms and includes also all the synthetic compounds the skeletons of which contain carbon atoms The first chapter describes in general terms for not expert readers what Organic and Bio molecular chemistry is the nature and behavior of organic compounds in living organisms the importance of organic compounds in the market and in our every day life The subsequent chapters are organized in order to provide the reader with information on the structure reactivity

analysis and different applications of Organic Compounds These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

*NMR Spectroscopy in Organic Chemistry* B. I. Ionin, 2012-12-06 In recent years high resolution nuclear magnetic resonance spectroscopy has found very wide application in organic chemistry in structural and physicochemical investigations and also in the study of the characteristics of organic compounds which are related to the distribution of the electron cloud in the molecules The vigorous development of this method which may really be regarded as an independent branch of science is the result of extensive progress in NMR technology the refinement of its theory and the accumulation of large amounts of experimental material which has been correlated by empirical laws and principles The literature directly concerned with the NMR method and its application has now grown to such an extent that a complete review of it is practically impossible Therefore the authors have limited themselves to an examination of only the most important fundamental and general investigations The book consists of six chapters In the first chapter we have attempted to present the fundamentals of the NMR method in such a way that the reader with little knowledge of the subject will be able to use the method in practical work for investigating simple compounds and solving simple problems The three subsequent chapters give a deeper analysis of the method while the last two chapters and the appendix illustrate the various applications of NMR spectroscopy in organic chemistry

**Medicinal Chemistry** Thomas Nogrady, Donald F.

Weaver, 2005-08-11 Fully updated and rewritten by a basic scientist who is also a practicing physician the third edition of this popular textbook remains comprehensive authoritative and readable Taking a receptor based target centered approach it presents the concepts central to the study of drug action in a logical mechanistic way grounded on molecular and principles Students of pharmacy chemistry and pharmacology as well as researchers interested in a better understanding of drug design will find this book an invaluable resource Starting with an overview of basic principles Medicinal Chemistry examines the properties of drug molecules the characteristics of drug receptors and the nature of drug receptor interactions Then it systematically examines the various families of receptors involved in human disease and drug design The first three classes of receptors are related to endogenous molecules neurotransmitters hormones and immunomodulators Next receptors associated with cellular organelles mitochondria cell nucleus endogenous macromolecules membrane proteins cytoplasmic enzymes and pathogens viruses bacteria are examined Through this evaluation of receptors all the main types of human disease and all major categories of drugs are considered There have been many changes in the third edition including a new chapter on the immune system Because of their increasingly prominent role in drug discovery molecular modeling techniques high throughput screening neuropharmacology and genetics genomics are given much more attention The chapter on hormonal therapies has been thoroughly updated and reorganized Emerging enzyme targets in drug design e.g. kinases caspases are discussed and recent information on voltage gated and ligand gated ion channels has been incorporated The

sections on antihypertensive antiviral antibacterial anti inflammatory antiarrhythmic and anticancer drugs as well as treatments for hyperlipidemia and peptic ulcer have been substantially expanded One new feature will enhance the book's appeal to all readers clinical molecular interface sections that facilitate understanding of the treatment of human disease at a molecular level

**Organic Chemistry, Enhanced Edition, Volume 1** John E. McMurry, 2009-05-08 The McMurry Enhanced Edition offers students a flexible format with added resources to enhance their learning and improve their performance in the course McMurry's textbook is now available in two separate volumes split between chapters 15 and 16 Also included are new study cards to help students focus their study efforts and OWL Quick Prep for Organic Chemistry in volume 1 an online short course that has proved to be very effective at helping students review key general chemistry concepts they need to excel in organic chemistry The trusted best selling text for organic chemistry just got better with the Enhanced Edition Important Notice Media content referenced within the product description or the product text may not be available in the ebook version

**Strategies and Solutions to Advanced Organic Reaction Mechanisms** Andrei Hent, John Andraos, 2019-06-28 Strategies and Solutions to Advanced Organic Reaction Mechanisms A New Perspective on McKillop's Problems builds upon Alexander Sandy McKillop's popular text Solutions to McKillop's Advanced Problems in Organic Reaction Mechanisms providing a unified methodological approach to dealing with problems of organic reaction mechanism This unique book outlines the logic experimental insight and problem solving strategy approaches available when dealing with problems of organic reaction mechanism These valuable methods emphasize a structured and widely applicable approach relevant for both students and experts in the field By using the methods described advanced students and researchers alike will be able to tackle problems in organic reaction mechanism from the simple and straight forward to the advanced Provides strategic methods for solving advanced mechanistic problems and applies those techniques to the 300 original problems in the first publication Replaces reliance on memorization with the understanding brought by pattern recognition to new problems Supplements worked examples with synthesis strategy green metrics analysis and novel research where available to help advanced students and researchers in choosing their next research project

**The Organic Chemistry of Drug Design and Drug Action** Richard B. Silverman, 2012-12-02 Standard medicinal chemistry courses and texts are organized by classes of drugs with an emphasis on descriptions of their biological and pharmacological effects This book represents a new approach based on physical organic chemical principles and reaction mechanisms that allow the reader to extrapolate to many related classes of drug molecules The Second Edition reflects the significant changes in the drug industry over the past decade and includes chapter problems and other elements that make the book more useful for course instruction New edition includes new chapter problems and exercises to help students learn plus extensive references and illustrations Clearly presents an organic chemist's perspective of how drugs are designed and function incorporating the extensive changes in the drug industry over the past ten years Well respected author has published over

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