

Bio inorganic Chemistry (3 lectures)

Role of transition metals such as Fe and Zn in biological systems, Cytochromes, Myoglobin, Hemoglobin, and Carbonic anhydrase

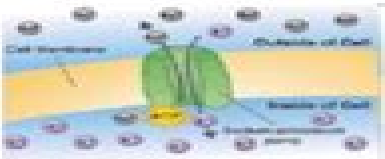
Prepared by Prof. Anil J. Elias, IIT Delhi

Bio Inorganic chemistry

Study of inorganic elements in the living systems

21 Na
22.99

19 K
39.09



Sodium potassium pump
(3/2⁺ of all the ATP used)

20 Ca
40.08

12 Mg
24.31



26 Fe
55.85

Hemoglobin
Myoglobin
Cytochromes
Ferredoxin

27 Co
58.93

Vit B12

29 Cu
63.55

Hemocyanin
Carboxypeptidase

30 Zn
65.38

Carbonic anhydrase

Important roles metals play in biochemistry

1. Regulatory Action

Na, K
muscle contraction

Sodium potassium channels and pump

Nerve signals and impulses, action potential

2. Structural Role

Ca, Mg

Calcium in bones, teeth

provide strength and rigidity

Basic Inorganic Chemistry

**Brian J Hathaway, Clair Murphy, Brian
Murphy**



Basic Inorganic Chemistry:

Basic Inorganic Chemistry F. Albert Cotton, Geoffrey Wilkinson, Paul L. Gaus, 1995-01-18 Explains the basics of inorganic chemistry with a primary emphasis on facts then uses the student's growing factual knowledge as a foundation for discussing the important principles of periodicity in structure bonding and reactivity New to this updated edition improved treatment of atomic orbitals and properties such as electronegativity novel approaches to the depiction of ionic structures nomenclature for transition metal compounds quantitative approaches to acid base chemistry Wade's rules for boranes and carboranes the chemistry of major new classes of substances including fullerenes and silenes plus a chapter on the inorganic solid state

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Chemistry Earl W. Kendall, 1944 **Basic Inorganic Chemistry** Chandrasekhara Reddy, 2008-01-01 **Basic Inorganic Chemistry, Solutions Manual** F. Albert Cotton, Geoffrey Wilkinson, Paul L. Gaus, 1986-02-15 A systematic and descriptive approach to the first facts of inorganic chemistry A firm and traditional presentation with a unified approach to the correlations and connections among properties structures reactivities periodicities and behaviors of the elements and their compounds Discusses bonding based on the overlap criterion of bond strength the rigors of bonding being presented without developing the math Gives expanded treatment of periodicity reaction mechanisms electronic spectroscopy bioinorganic chemistry catalysis and organometallic chemistry Includes three types of problems review additional challenging exercises and questions from the literature on inorganic chemistry Basic Inorganic Chemistry Dr. Giridhar Sharma, 2010 *Basic Organic and Inorganic Chemistry* Dakota Rooney, 2025-08-25 Within the subject of chemistry organic and inorganic chemistry constitute distinct sub disciplines each dedicated to the study of organic and inorganic compounds respectively Organic chemistry delves into studying the properties structure and reactions of organic compounds Organic compounds are distinguished by carbon atoms bonded via covalent linkages Understanding the structural nuances is crucial for discerning their chemical composition and formula This branch of chemistry scrutinizes the physical and chemical attributes of organic compounds delving into their reactivity to understand their behaviour Conversely inorganic chemistry is primarily concerned with synthesizing and behavior of inorganic and organometallic compounds Inorganic compounds stemming from natural sources are often sourced as minerals The topics included in this book on organic and inorganic chemistry are of the utmost significance and bound to provide incredible insights to readers Most of the topics introduced herein cover new concepts and applications of organic and inorganic chemistry This book with its detailed coverage will prove immensely beneficial to professionals and students involved in this area at various levels Basic Inorganic Chemistry Dennis Close, 2025-08-25 Inorganic chemistry is the study of the synthesis structure and behavior of organometallic and inorganic compounds substances lacking carbon hydrogen bonds These compounds are typically classified into categories such as coordination compounds transition metal complexes cluster compounds and bioinorganic compounds The field is underpinned by foundational theories including the Bohr model of the atom ligand field theory molecular orbital theory density functional theory VSEPR theory and molecular symmetry group theory all of which contribute to its theoretical and practical development Inorganic chemistry plays a critical role in numerous industries including catalysis materials science coatings pigments surfactants and extends to applications in agriculture and medicine This book is a compilation of chapters that discuss the most vital concepts in the field of inorganic chemistry This book unfolds the innovative aspects of the discipline which will be crucial for the holistic understanding of the subject matter Coherent flow of topics student friendly language and extensive use of examples make this book an invaluable source of knowledge Inorganic Chemistry Gary Wulfsberg, 2000-03-16 Both elementary inorganic reaction chemistry and more advanced inorganic theories are presented in

this one textbook while showing the relationships between the two

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in biological systems and the introduction of inorganic elements into biological systems often as medicines. The book begins with two review chapters: Inorganic Chemistry Essentials and Biochemistry Fundamentals. Chapter 3, Instrumental and Computer Based Methods, provides an introduction to some important instrumental techniques including basic information about computer hardware and software. Chapters on specific topics include Iron-Containing Oxygen Carriers and Their Synthetic Models, Copper Enzymes, The Enzyme Nitrogenase, and Metals in Medicine. The author also encourages instructors and students to pursue their own independent investigations in bioinorganic topics, providing a helpful detailed list of suggestions. With a host of current bibliographic references, *Bioinorganic Chemistry: A Short Course* proves the premier text in its field.

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web practice continued lesson 11 2 for use with pages 729 736 use the given information to find the value of x 2 area 196ft² 10 area 330 in date 12 15 20 area 187 cm² h