

Biology Chapter 4 Book Notes

Section 1

- Nucleic acids are polymers, just as proteins are polymers
 - But instead of being assembled from amino acids, **nucleic acids** are made up of monomers called **nucleotides**.
- **3 components of a nucleotide:**
 - Phosphate group
 - 5-carbon sugar
 - Nitrogen containing base
 - **The phosphate group is bonded to the sugar molecule, which is bonded to the base**
- The sugar is the central component of the nucleotide
 - The five carbons in this sugar are labeled w/ numbers and prime symbols (') to provide a frame of reference
 - **Ex) the base is attached to the 1' carbon and the phosphate group is attached to the 5' carbon**
- Ribonucleotides are monomers of ribonucleic acid (RNA) and deoxyribonucleotides are the monomers of deoxyribonucleic acid (DNA)
 - Sugars: Ribose in ribonucleotides, deoxyribose in deoxyribonucleotides
 - **Deoxy- lacking in oxygen**
- Ribonucleotides and deoxyribonucleotides also differ in one of their nitrogenous bases
 - These bases belong to structural groups called **purines** and **pyrimidines**
 - Purines: adenine (A) and guanine (G)
 - Pyrimidines: cytosine (C), uracil (U), and thymine (T).
 - **Ribonucleotides use uracil (U), while deoxyribonucleotides use thymine (T).**
- Based on data from Stanley Miller and researchers who followed ([Chapter 2](#)), most biologists accept the idea that amino acids could have been synthesized early in Earth's history
 - Miller-like laboratory simulations have shown that nitrogenous bases and many different types of sugars, including ribose, can be synthesized readily under conditions that mimic the prebiotic soup
 - What they found was striking—the minerals preferentially bound to ribose, effectively enriching and concentrating ribose on their surface from a pool of diverse sugars
- Nucleotides polymerize via condensation reactions between the hydroxyl on the sugar component of one nucleotide and the phosphate group of another nucleotide
 - The reaction forms a new covalent bond between the nucleotides, and a molecule of water is released.
 - It's called a **phosphodiester linkage**, or a phosphodiester bond

Biology Chapter 4 Section 4 Review

James L. Flowers



Biology Chapter 4 Section 4 Review:

Prentice Hall Science Explorer Michael J. Padilla, 2002 **Chemical Building Blocks** Michael J. Padilla, David V. Frank, John G. Little, Steve Miller, 2000 **Human Biology and Health** Michael J. Padilla, 2002 **Calcutta Review**, 1921
Sound and Light Michael J. Padilla, Ioannis Miaoulis, Martha Cyr, Jay M. Pasachoff, 2002 **Advances in poultry nutrition** Professor Todd J. Applegate, 2024-09-10 Reviews the development of novel feed sources as feed for poultry focussing on the use of essential oils macroalgae microalgae and corn fermented protein Addresses the recent advances in understanding the role of individual nutrients and additives in poultry nutrition Considers the range of methods and techniques implementable to maintain the safety of poultry feed and prevent mycotoxin contamination **Microcognition** Andy Clark, 1989 Microcognition provides a clear readable guide to parallel distributed processing from a cognitive philosopher s point of view **Motion, Forces, and Energy** Michael J. Padilla, Peter Kahan, 2002 **Human Biology and Health**, 1997 *MCAT Comprehensive Review, 2004* Kaplan, Inc, 2003 The bestselling MCAT prep guide is a must for pre med students preparing for the demanding Medical College Admissions Test MCAT The CD features one full length practice test with detailed explanations plus effective tips and strategies **Energy Research Abstracts**, 1978 *Human Biology* Cecie Starr, Beverly McMillan, 2003 The Fifth Edition of Starr and McMillan s best selling HUMAN BIOLOGY is designed to help students understand human biology by engaging them in learning in every way possible The book s extensive array of multimedia resources enriches the book s hallmark features unique visuals on every page applications in every chapter that show how human biology is inextricably linked to everyday life and activities and resources throughout the book that encourage critical thinking Segments on the FREE accompanying interactive CD ROM as well as the CNN Today Videos Web links and reading from the InfoTrac College Edition library are all integrated with the text to support illuminate and reinforce the text Starr and McMillan s visuals work hand in hand with the authors clear writing Each basic concept appears as a one or two page Concept Spread This format helps students focus on information in manageable easy to understand segments Main points are laid out clearly summarized and reinforced by visuals The carefully written transitions between Concept Spreads help students grasp how each concept fits into the whole story of the remarkable human body **MCAT Comprehensive Review**, 2004 **Peterson's Principles of Oral and Maxillofacial Surgery** Larry J. Peterson, 2012 Peterson s Principles of Oral and Maxillofacial Surgery Third Edition encompasses a wide range of diverse topics making it a unique text amongst the medical and dental specialties The purpose of this concise easy to read two volume text is to provide an authoritative and currently referenced survey of the specialty of Oral and Maxillofacial Surgery It contains the necessary information for clinicians and is an ideal reference text for preparation for board certification in the specialty PCAT Aftab S. Hassan, Williams & Wilkins Review, Betz, 1998 Based on Guidelines from the American Association of Colleges of Pharmacy this volume includes a skills based review of the latest content and a full length practice exam with solutions Readers will

acquire the skills and the secrets that will lead to improved success including a 10 point prescription for conquering the exam

The Best Test Preparation for the MCAT, Medical College Admission Test Joseph A. Alvarez,1991 This test preparation book includes six full length exams modeled after the actual MCAT with detailed explanations to every test question Included are five comprehensive reviews designed to familiarize the examinee with the material tested on the MCAT mathematics physics chemistry biology and a writing sample review Key scientific topics reading comprehension passage writing skills and quantitative skills are both reviewed and tested For prospective medical school students

Redfern's Nursing Older People Fiona M. Ross,Ruth Harris,Joanne M. Fitzpatrick,Clare Abley,2023-04-20 Redfern s Nursing Older People provides accessible evidence based information for nurses care assistants and other health professionals wanting to improve the quality of health and social care for older people Republished for the first time since 2006 this fifth edition has been comprehensively revised and rewritten by a large team of expert contributors while preserving the person centred spirit of earlier editions It applies best evidence in straightforward and practical ways to the demographic physical psychological social and emotional challenges of ageing with a focus on supporting independence and health maintenance With new contributions covering emerging challenges such as understanding frailty and the use of digital technology and the themes of diversity service user perspectives and the impact of the COVID 19 pandemic woven throughout Redfern s Nursing Older People is essential reading to help nurses shape practice improve outcomes and promote opportunities for ageing well Written by a team of 68 specialists and experts drawn from the fields of nursing social sciences gerontology and healthcare practice Covers the latest evidence policy and nursing practice Focus on nursing led solutions for improving activities of daily living independence and preventing common problems of ageing Accessible to all with stories case studies and lived experience to bring material to life Summaries and learning points support learning around complex problems Emphasis on countering ageism using images and wider literature where appropriate All chapters either extensively rewritten or completely new New chapters on frailty the misuse of alcohol as a growing problem in old age digital technology and nursing older people with intellectual disabilities Core themes of gerontology embedded throughout such as assessment and rehabilitation Impact of COVID 19 embedded throughout

A Complete Preparation for the MCAT.: Knowledge & comprehension of science James L. Flowers,1988

MCAT Joseph A. Alvarez,2001 The book and software complement each other This test preparation book includes six full length exams based on actual MCATs released by the test administrators Detailed explanations to every test question are included Also contained are five comprehensive reviews designed to familiarize the examinee with the material tested on the MCAT mathematics physics chemistry biology and a writing sample review Key scientific topics reading comprehension passages writing skills and quantitative skills are both reviewed and tested Includes the complete MCAT Test Prep book plus interactive software The software offers two complete exams under actual exam conditions with controlled timing and question order It automatically scores test performance provides analysis

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Designed for the undergraduate student bound for medical school

Core Curriculum for Maternal-Newborn Nursing
E-Book AWHONN, Jill Janke, Brenda J Baker, 2022-10-14 American Journal of Nursing AJN Book of the Year Awards 2nd Place
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definitive resource for nurses taking certification examinations provides the most up to date accurate information available
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