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Biochemistry

Biochemistry: The Molecular Basis of Life is the ideal text for students who do not specialize in biochemistry but who require a strong grasp of biochemical principles. The goal of this edition has been to enrich the coverage of chemistry while better highlighting the biological context. Once concepts and problem-solving skills have been mastered, students are prepared to tackle the complexities of science, modern life, and their chosen professions. NEW! Online Homework System from Sapling Learning. Oxford University Press has partnered with Sapling Learning to produce an online homework and instructional solution for the McKee & McKee Biochemistry: The Molecular Basis of Life textbook. The text that presents the coverage you need with the relevance your students want is now available with the most powerful online homework system in the industry. The relationship between Oxford University Press and Sapling Learning is based on: *Creating the highest-quality content *Providing unparalleled customer service to you and your students *Offering the McKee/Sapling Learning package at the most affordable price Visit http://www.saplinglearning.com/partners/partner_page_oxford.php to learn more about Sapling Learning and how pairing this incredible system with McKee & McKee's Biochemistry: The Molecular Basis of Life will help improve your instruction and your students' learning. UNMATCHED PRICES AND PACKAGING OPTIONS: **Text packaged with FREE Student Study Guide and Solutions Manual - 9780199837571 - \$154.95 **Text packaged with Sapling Online Homework at 50% off, Student Study Guide and Solutions Manual at 50% off - 9780199829606 - \$164.00 **Text packaged with Hardin's Biochemistry: Essential Concepts at 50% off - 9780199930289 - \$169.00 **Text packaged with Hardin's Biochemistry: Essential Concepts and Sapling Online Homework, both at 50% off - 9780199930272 - \$184.00 Distinctive Features *A Review of Basic Principles. To ensure that all students are sufficiently prepared for acquiring a meaningful understanding of biochemistry, the first four chapters - now streamlined for easier coverage and self-study assignment - review the principles of relevant topics such as organic functional groups, noncovalent bonding, thermodynamics, and cell structure. *Chemical and Biological Principles in Balance. Comprehensive coverage offers the flexibility for each instructor to decide how much chemistry or biology to present. Chemical mechanisms are always presented within the physiological context of the organism. *Real-World Relevance. Because students who take the survey of biochemistry course come from a range of backgrounds and have diverse career goals, the fifth edition consistently demonstrates the fascinating connections between biochemical principles and the fields of medicine, nutrition, agriculture, bioengineering, and forensics. *The most robust Problem-Solving Program available. In-chapter "Worked Problems" illustrate how quantitative problems are solved and provide students with opportunities to put their knowledge into

action right when new concepts are introduced. Dozens of "Questions" are interspersed throughout the chapters, getting students critically thinking about high-interest topics. Finally, hundreds of multiple-choice and short-answer questions at the end of the chapters test students' knowledge, develop their conceptual understanding, and encourage them to apply what they have learned. *Simple, Clear Illustrations. Biochemical concepts often require a high degree of visualization, and the McKee & McKee art program brings complex processes to life. Over 700 full-color figures, many newly enhanced for a more vivid presentation in three dimensions and consistent scale and color for chemical structures. *Currency. The fifth edition has been extensively updated with recent developments in the field, while remaining focused on the "big-picture" principles that are the focus of the one-term biochemistry course. New to this Edition *Chapter-opening Vignettes, an all-new feature of the fifth edition, give biological motivation. These 19 essays include the nature and diversity of life, the ocean's dark secret life, spider silk, humans and enzymes, sweet and bitter taste in diet, metabolism and jet engines, evolution as chance and necessity, oxygen's molecular paradox, global warming and renewable energy, the Gulf dead zone, Parkinson's disease and Alzheimer's, hypertension and uric acid, what makes us human, the medical mystery of DNA and chimeras, and the superbug MRSA *New "Biochemistry in Perspective" boxes (9 new in all), each with an opening question and concluding summary, show students the real-world relevance of the biochemical processes they are studying. The fifth edition includes new essays on cell regulation and metabolism, protein folding and human disease, quantum tunneling and catalysis, wine production, turbo design dangers, myocardial infarct, the hormone cascade system, and trapped ribosomes *New "Biochemistry in the Lab" boxes on protein sequence analysis and glycomics *Increase in chemical coverage with increased emphasis on mechanisms *Enhanced coverage of cutting-edge topics including RNAi, epigenetics and the epigenome, macromolecular crowding, GLUT transporters, systems biology, and the contribution of dietary fructose to the current epidemics of obesity and type II diabetes *In-Chapter "Key Concept" lists (more than 100 bulleted summaries with icons), plus more than 100 icons for biomedical applications with new labels identifying the application. Other icons point to JMOL visualization software. *20% more end-of-chapter review and thought questions test knowledge, develop conceptual understanding, and encourage students to apply what they have learned *Updated coverage of coenzymes, viruses, and biotechnology *Extended coverage of amino acids, proteins, enzymes, carbohydrates, nucleic acids, and genetic information--the basic building blocks--and trimmed down coverage of metabolism (especially nitrogen metabolism) *The entire text is now tied to NEW Sapling Learning online homework system! Oxford University Press has partnered with Sapling Learning to produce an online homework and instructional solution for Biochemistry: The Molecular Basis of Life textbook. The text that presents the coverage you need with the relevance your students want is now available with the most powerful online homework system in the industry.

Biochemistry, Fifth Edition

Biochemistry: The Molecular Basis of Life, International Fifth Edition is an intermediate, one-semester text written for students on degree pathways in Chemistry, Biology and other Health and Life Sciences. Aimed at students with one unit of Organic Chemistry, it focuses on essential biochemical principles that underpin the modern life sciences, and offers the most balanced coverage of chemistry and biology of any text on the market. The text equips students with a complete view of the living state, emphasizes problem solving, and applies biochemical principles to the fields of Health, Agriculture, Engineering and Forensics, to show students the relevance of their learning. The text provides a complete view of the living state by explaining the functional and structural properties of biomolecules in the context of their biochemical reactions and impact on living organisms. It also places strong emphasis on critical thinking to help students diagnose real biochemical problems, and integrates fascinating applications of Biochemistry to the fields of Health, Agriculture, Engineering and Forensics in order to relate concept to experience and show students the relevance of their learning.

Biochemistry

With the addition of two new co-authors, Biochemistry takes a new direction, as it becomes the first text to fully reflect the revolution that has taken place in biomedical science in the past ten years, culminating in the human genome project. A key focus of the new edition is the unifying features of protein structure and function that have been revealed by the incredible progress in gene sequencing. Such features are highlighted in a way that will help students master the complex and intricate subject matter.

Biochemistry

Biochemistry: The Molecular Basis of Life, International Fifth Edition is an intermediate, one-semester text written for students on degree pathways in Chemistry, Biology and other Health and Life Sciences.

Biochemistry, Fifth Edition

Essential Biochemistry, 5th Edition is comprised of biology, pre-med and allied health topics and presents a broad, but not overwhelming, base of biochemical coverage that focuses on the chemistry behind the biology. This revised edition relates the chemical concepts that scaffold the biology of biochemistry, providing practical knowledge as well as many problem-solving opportunities to hone skills. Key Concepts and Concept Review features help students to identify and review important takeaways in each section.

Student Study Guide and Solutions Manual for Use with Biochemistry: the Molecular Basis of Life

For one-semester or two-semester introductory courses in Biochemistry. May be taught out of departments of chemistry, biology, or biochemistry. Biochemistry departments may be in faculties of science or in medicine. This concise, introductory text focuses on the basic principles of biochemistry, filling the gap between the encyclopedic volumes and the cursory overview texts. The book has a well-deserved reputation for being the most accurate biochemistry textbook in the market. Widely praised in its previous edition for currency, and clarity of exposition, the new edition has been thoroughly revised and updated to reflect recent changes in this dynamic discipline.

Essential Biochemistry

Previous edition: Clinical biochemistry / Allan Gaw ... [et al.]. 2013. 5th ed.

Outlines of Biochemistry

Opslagsværk for biokemi med præsentation af værktøjer, teknikker, forskning indenfor proteiner, gener og evolution.

Principles of Biochemistry

A clinical companion to accompany Biochemistry.

Biochemistry: The Molecular Basis of Life

Includes up-to-date coverage on human health and disease. * Uses simple, clear language to convey the inspiring beauty of the structure and chemistry of life. * Early emphasis on recombinant DNA technology.

PRINCIPLES OF BIOCHEMISTRY.

Amino acids, peptides, and proteins -- Enzymes -- Lipidomic and lipidomes -- Vitamins and coenzymes -- Nucleic acids -- Glycoscience -- Chemical biology and drug design -- Physical and chemical data

Biochemistry

Environmental Chemistry, Eighth Edition builds on the same organizational structure validated in previous editions to systematically develop the principles, tools, and techniques of environmental chemistry to provide students and professionals with a clear understanding of the science and its applications. Revised and updated since the publication of the best-selling Seventh Edition, this text continues to emphasize the major concepts essential to the practice of environmental science, technology, and chemistry while introducing the newest innovations to the field. The author provides clear explanations to important concepts such as the anthrosphere, industrial ecosystems, geochemistry, aquatic chemistry, and atmospheric chemistry, including the study of ozone-depleting chlorofluorocarbons. The subject of industrial chemistry and energy resources is supported by pertinent topics in recycling and hazardous waste. Several chapters review environmental biochemistry and toxicology, and the final chapters describe analytical methods for measuring chemical and biological waste. New features in this edition include: enhanced coverage of chemical fate and transport; industrial ecology, particularly how it is integrated with green chemistry; conservation principles and recent accomplishments in sustainable

chemical science and technology; a new chapter addressing terrorism and threats to the environment; and the use of real world examples.

Clinical Biochemistry

Principles of Biochemistry provides a concise introduction to fundamental concepts of biochemistry, striking the right balance of rigor and detail between the encyclopedic volumes and the cursory overview texts available today. Widely praised for accuracy, currency, and clarity of exposition, the 5th Edition offers a new student-friendly design, an enhanced visual program, new Application Boxes, contemporary research integrated throughout, and updated end-of-chapter problems. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed.

Biochemistry

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Biochemistry + Student Companion

The Student Study Guide and Solutions Manual t/a the 3rd edition of McKee and McKee's Biochemistry: The Molecular Basis of Life is written by Patricia DePra of Westfield State College in Massachusetts. Each chapter give a review of important points of each chapter and, where appropriate, discusses problem solving techniques. The solutions to odd-numbered problems from the text are also included.

Biochemistry, Fifth Edition Lecture Notebook

This concise, introductory text focuses on the basic principles of biochemistry. The new edition has been revised and updated to reflect recent changes in the discipline.

A Clinical Companion to accompany Biochemistry, Fifth Edition

With clear explanations, real-world examples and updated ancillary material, the 11th edition of Environmental Chemistry emphasizes the concepts essential to the practice of environmental science, technology and chemistry. The format and organization popular in preceding editions is used, including an approach based upon the five environmental spheres and the relationship of environmental chemistry to the key concepts of sustainability, industrial ecology and green chemistry. The new edition provides a comprehensive view of key environmental issues, and significantly looks at diseases and pandemics as an environmental problem influenced by other environmental concerns like climate change. Features: The most trusted and best-selling text for environmental chemistry has been fully updated and expanded once again The author has preserved the basic format with appropriate updates including a comprehensive overview of key environmental issues and concerns New to this important text is material on the threat of pathogens and disease, deadly past pandemics that killed millions, recently emerged diseases and the prospects for more environment threats related to disease This outstanding legacy appeals to a wide audience and can also be an ideal interdisciplinary book for graduate students with degrees in a variety of disciplines other than chemistry New! Long-awaited companion website featuring additional ancillary material

Outlines of Biochemistry

Thoroughly updated for its Fifth Edition, this popular review book is an excellent aid for USMLE Step 1 preparation and for coursework in biochemistry, molecular biology, and genetics. Chapters are written in an outline format and include pedagogical features such as bolded key words, figures, tables, algorithms, and highlighted clinical correlates. USMLE-style questions and answers follow each chapter and a comprehensive exam appears at the end of the book. A companion website includes an interactive question bank with questions from the book and the fully searchable text.

Outlines of Biochemistry

This multi-author edited volume reviews the recent developments in boron chemistry, with a particular emphasis on the contribution of computational chemistry. The contributors come from Europe, the USA and Asia. About 60% of the book concentrates on theoretical and computational themes whilst 40% is on topics of interest to experimental chemists. Specific themes covered include structure, topology, modelling and prediction, the role of boron clusters in synthetic chemistry and catalysis, as medical agents when acting as inhibitors of HIV protease and carbonic anhydrases.

Fundamentals of Biochemistry

30-Second Biochemistry presents the subject's 50 most important ideas, breaking down the proteins, carbohydrates and more to explain the science of living organisms.

BIOCHEMISTRY

Principles of Biochemistry