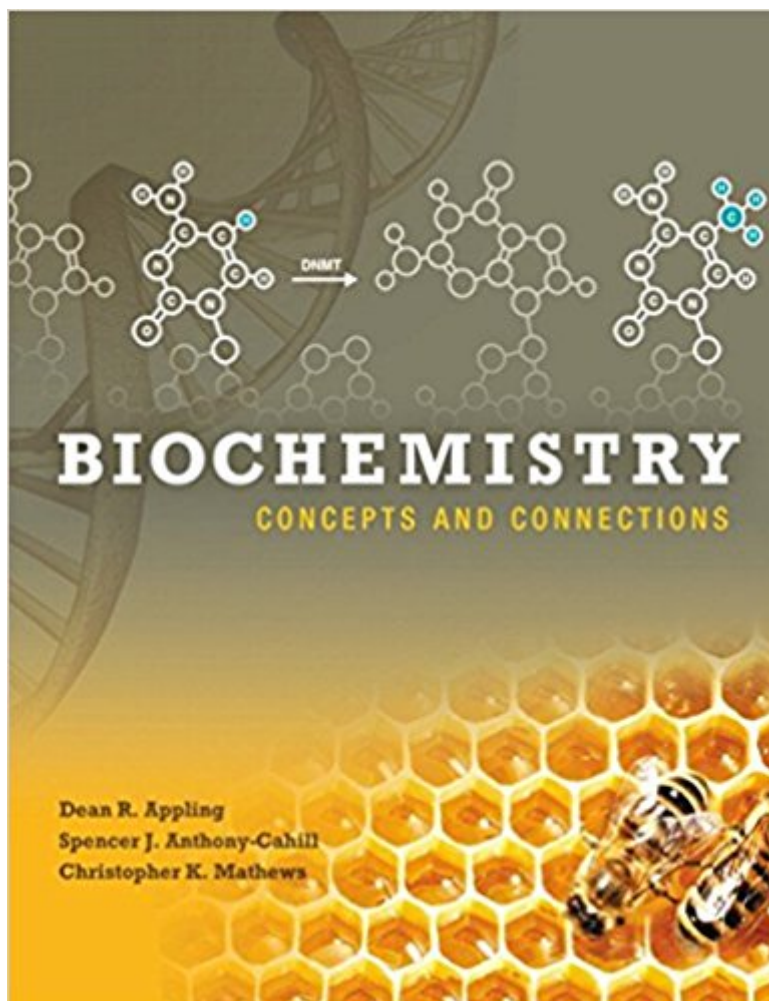


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Biochemistry: Concepts And Connections



Synopsis

NOTE: You are purchasing a standalone product; MasteringChemistry does not come packaged with this content. If you would like to purchase both the physical text and MasteringChemistry search for ISBN-10: 0321839765/ISBN-13: 9780321839763. That package includes ISBN-10: 0133871975 /ISBN-13: 9780133871975 and ISBN-10: 0321839927/ISBN-13: 9780321839923. For one or two semester biochemistry courses (science majors). A highly visual, precise and fresh approach to guide today's mixed-science majors to a deeper understanding of biochemistry Biochemistry: Concepts and Connections engages students in the rapidly evolving field of biochemistry, better preparing them for the challenges of 21st century science through quantitative reasoning skills and a rich, chemical perspective on biological processes. This concise first edition teaches mixed-science-majors the chemical logic underlying the mechanisms, pathways, and processes in living cells through groundbreaking biochemical art and a clear narrative that illustrates biochemistry's relation to all other life sciences. Integration of biochemistry's experimental underpinnings alongside the presentation of modern techniques encourages students to appreciate and consider how their understanding of biochemistry can and will contribute to solving problems in medicine, agricultural sciences, environmental sciences, and forensics. The text is fully integrated with MasteringChemistry to provide support for students before, during, and after class. Highlights include interactive animations and tutorials based on the textbook's biochemical art program and Foundation Figures to help students visualize complex processes, apply, and test conceptual understanding as well as quantitative reasoning. Also available with MasteringChemistry® MasteringChemistry from Pearson is the leading online homework, tutorial, and assessment system, designed to improve results by engaging students before, during, and after class with powerful content. Instructors ensure students arrive prepared by assigning interaction with relevant biochemical concepts before class, and encourage critical thinking, visualization, and retention with in-class resources such as Learning Catalytics™. Students can further master concepts after class by interacting with biochemistry animations, problem sets, and tutorial assignments that provide hints and answer-specific feedback. The Mastering gradebook records scores for all automatically graded assignments in one place, while diagnostic tools give instructors access to rich data to assess student understanding and misconceptions. Mastering brings learning full circle by continuously adapting to each student and making learning more personal than ever before, during, and after class.

Book Information

Hardcover: 912 pages

Publisher: Pearson; 1 edition (January 9, 2015)

Language: English

ISBN-10: 0321839927

ISBN-13: 978-0321839923

Product Dimensions: 9.9 x 1.4 x 10.7 inches

Shipping Weight: 5 pounds (View shipping rates and policies)

Average Customer Review: 3.8 out of 5 stars 15 customer reviews

Best Sellers Rank: #17,881 in Books (See Top 100 in Books) #35 in [Books > Engineering & Transportation > Engineering > Bioengineering > Biochemistry](#) #122 in [Books > Science & Math > Chemistry > General & Reference](#) #150 in [Books > Textbooks > Science & Mathematics > Chemistry](#)

Customer Reviews

Dean R. Appling is the Lester J. Reed Professor of Biochemistry and the Associate Dean for Research and Facilities for the College of Natural Sciences at the University of Texas at Austin, where he has taught and done research for the past 29 years. Dean earned his B.S. in Biology from Texas A&M University (1977) and his Ph.D. in Biochemistry from Vanderbilt University (1981). The Appling laboratory studies the organization and regulation of metabolic pathways in eukaryotes, focusing on folate-mediated one-carbon metabolism. The lab is particularly interested in understanding how one-carbon metabolism is organized in mitochondria, as these organelles are central players in many human diseases. In addition to coauthoring the 4th edition of Biochemistry, a textbook for majors and graduate students, Dean has published over 60 scientific papers and book chapters. [As much fun as writing a textbook might be, Dean would rather be outdoors.](#) He is an avid fisherman and hiker. Recently, Dean and his wife, Maureen, have become entranced by the birds on the Texas coast. They were introduced to bird-watching by coauthor Chris Mathews and his wife Kate. [A fun unintended consequence of writing textbooks!](#) [Spencer J. Anthony-Cahill](#) is a Professor in the Department of Chemistry at Western Washington University (WWU), Bellingham, WA. Spencer earned his B.A. in chemistry from Whitman College, and his Ph.D. in bioorganic chemistry from the University of California, Berkeley. His graduate work, in the laboratory of Peter Schultz, focused on the biosynthetic incorporation of unnatural amino acids into proteins. Spencer was an NIH postdoctoral fellow in the laboratory of Bill DeGrado (then at DuPont Central Research), where he worked on de novo peptide design and the prediction of the tertiary

structure of the HLH DNA-binding motif. He then worked for five years as a research scientist in the biotechnology industry, developing recombinant hemoglobin as a treatment for acute blood loss. In 1997, Spencer decided to pursue his long-standing interest in teaching and moved to WWU, where he is today. In 2012 Spencer was recognized by WWU with the Peter J. Elich Award for Excellence in Teaching. Research in the Anthony J. Cahill laboratory is directed at the protein engineering and structural biology of oxygen-binding proteins. The primary focus is on circular permutation of human β -globin as a means of developing a single-chain hemoglobin with desirable therapeutic properties as a blood replacement. Outside the classroom and laboratory, Spencer is a great fan of the outdoors—especially the North Cascades and southeastern Utah, where he has often backpacked, camped, climbed, and mountain biked. He also plays electric bass (poorly) in a local blues-rock band and teaches Aikido in Bellingham.

Christopher K. Mathews is Distinguished Professor Emeritus of Biochemistry at Oregon State University. He earned his B.A. in chemistry from Reed College (1958) and Ph.D. in biochemistry from the University of Washington (1962). He served on the faculties of Yale University and the University of Arizona from 1963 until 1978, when he moved to Oregon State University as Chair of the Department of Biochemistry and Biophysics, a position he held until 2002. His major research interest is the enzymology and regulation of DNA precursor metabolism and the intracellular coordination between deoxyribonucleotide synthesis and DNA replication. From 1984 to 1985, Dr. Mathews was an Eleanor Roosevelt International Cancer Fellow at the Karolinska Institute in Stockholm, and in 1994–1995 he held the Tage Erlander Guest Professorship at Stockholm University. Dr. Mathews has published about 185 research papers, book chapters, and reviews dealing with molecular virology, metabolic regulation, nucleotide enzymology, and biochemical genetics. From 1964 until 2012 he was principal investigator on grants from the National Institutes of Health, National Science Foundation, and the Army Research Office. He is the author of *Bacteriophage Biochemistry* (1971) and coeditor of *Bacteriophage T4* (1983) and *Structural and Organizational Aspects of Metabolic Regulation* (1990). He was lead author of four editions of *Biochemistry*, a textbook for majors and graduate students. His teaching experience includes undergraduate, graduate, and medical school biochemistry courses. He has backpacked and floated the mountains and rivers, respectively, of Oregon and the Northwest. As an enthusiastic birder he has served as President of the Audubon Society of Corvallis and is President of the Great Basin Society, which operates the Malheur Field Station in eastern Oregon.

This book is missing key information it expects you to "just know". For example, in chapter 3 it gives

you an equation, and expects you to know all the values for the components of the equation, such as gas constant. In chapter 2, it expects you to know how it got a different value for the H-O ionic bond. There was no way to arrive at this value they gave you using calculation. I asked my biochemistry instructor, who has made her life of this, and she said, "all biochemists know this. It's just a given". This must be a problem with all biochemists. They don't explain to the entry student the basic principles, and then can't understand why you are confused.

I bought the international paperback edition printed in India. It seems to be the same as the US version, but the pages are all printed in black and white including the diagrams and illustrations. I assume the US version has color illustrations. The paper is also pretty thin, highlighting would probably bleed through. It's much cheaper than the other version though, for me the difference in price makes up for the lower quality printing. The book was clearly brand new and shrinkwrapped, it arrived about a week after I ordered it.

Wonderful primer for a intro o biochemistry

New book used for Biochem 1 this semester. It spends way too much time talking about other chapters rather than the very same topic it should be expanding on.

My daughter was pleased (for college). Arrived earlier than expected and packed nicely. Returning was a breeze, too. Absolutely no problems at all. Thank-you so very much.

Product was perfect, however, my one gripe is that there are no published answers for a lot of the questions in the back of the chapter....

Looked brand new! Great quality for a rental book.

It's a very dense book. It did not go in much details, many of the concepts were believed to be understood.

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