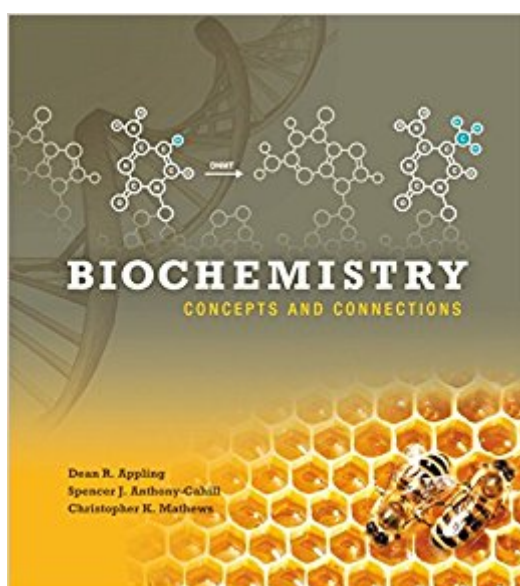


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## Synopsis

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For one or two semester biochemistry courses (science majors). This package includes MasteringChemistry®. 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. A A 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. A 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. A A Superior support beyond the classroom 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

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## 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—“an 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-Cahill laboratory is directed at the protein engineering and structural biology of oxygen-binding proteins. The primary focus is on circular permutation of human b-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.

It's no Klein Organic Chemistry text but it does the job for a one semester course. Minute mistakes and lack of clarification here and there but lots of diagrams and illustrations to elucidate content. Be aware that my entire class had issues with the Mastering Chemistry code, requiring sorting out through customer service but did get eventual access to the online content. It may be worth it to buy used (sans code) and buy the code separately direct from Pearson's website if your professor requires it.

The text is a bit dense and expects the reader to definitely know a lot more background than I expected. I would highly recommend using a supplement with this text as it is more suited for a graduate level course and not so much an undergraduate class.

The book was brand new and arrived quickly with additional resources as promised.

Great! Had both the hard cover book and mastering biochem

This book does not do a good job of explaining the concepts to the reader. I would not recommend it unless you have already taken a previous Biochemistry class and are very familiar with the subject. I felt really confused by this book, and usually have a lot of success teaching myself subjects by reading the book and doing the chapter problems etc. This book just isn't organized well, and really lacks clarity. I recommend finding a different author on the subject. Good luck!

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