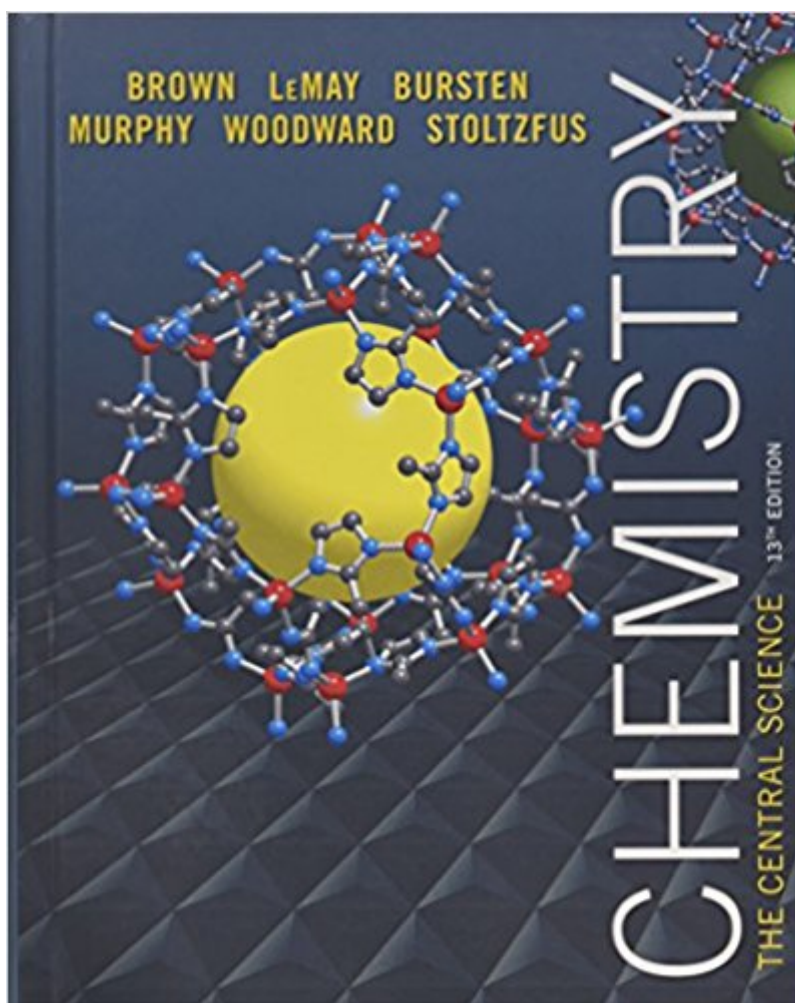


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# Chemistry: The Central Science (13th Edition)



## Synopsis

The trusted, innovative, calibrated leader—now tightly integrated with MasteringChemistry®. Unrivaled problems, notable scientific accuracy and currency, and remarkable clarity have made *Chemistry: The Central Science* the leading general chemistry text for more than a decade. Trusted, innovative, and calibrated, the text increases conceptual understanding and student success in general chemistry by building on the expertise of the dynamic author team of leading researchers and award-winning professors. The new Thirteenth Edition builds on the Twelfth Edition's major revision, in which every word and piece of art was scrutinized by all the authors to increase its effectiveness. Placing a greater emphasis on research, this edition is more tightly integrated with MasteringChemistry, the leading online homework, tutorial, and assessment program—resulting in an unparalleled teaching and learning package that personalizes learning and coaches students toward understanding and mastery of tough chemistry topics. This program presents a better teaching and learning experience—for you and your students. It provides:

- Superior support beyond the classroom with MasteringChemistry: Students benefit from personalized, interactive learning through MasteringChemistry's self-paced tutorials that guide them through the text's most challenging topics; provide immediate, specific feedback; and keep students engaged and on track.
- Enhanced learning from a dynamic author team of leading researchers and award-winning professors: Each member of this well-respected author team brings their expertise in a wide range of areas to the pages of this popular text. All authors have been active researchers and have taught general chemistry for many years.
- Improved conceptual understanding through stepped up, relevant pedagogy: Students get numerous opportunities to test their knowledge through Give It Some Thought (GIST) exercises, Go Figure questions, and A Closer Look essays, now integrated with clicker questions and in MasteringChemistry.
- Invaluable aids that ensure problem-solving success: By using a consistent process, a unique Analyze/Plan/Solve/Check format, dual-column problem-solving approach in certain areas, a new practice exercise following each worked example, and the Strategies in Chemistry feature, students are placed on the right path from the very start to excel at problem solving and comprehension. Clarity through visualization from a variety of perspectives, including macroscopic, microscopic, and symbolic: Included are Visualizing Concepts exercises, with models, graphs, and other visual materials; sample exercises with molecular illustrations; and conceptual questions in the end-of-chapter questions.

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: 0321864409/ISBN-13:

9780321864406. That package includes ISBN-10: 0321910419/ISBN-13: 9780321910417 and ISBN-10: 0321934245/ISBN-13: 9780321934246. MasteringChemistry is not a self-paced technology and should only be purchased when required by an instructor.

## Book Information

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## Customer Reviews

THEODORE L. BROWN received his Ph.D. from Michigan State University in 1956. Since then, he has been a member of the faculty of the University of Illinois, Urbana-Champaign, where he is now Professor of Chemistry, Emeritus. He served as Vice Chancellor for Research, and Dean, The Graduate College, from 1980 to 1986, and as Founding Director of the Arnold and Mabel Beckman Institute for Advanced Science and Technology from 1987 to 1993. Professor Brown has been an Alfred P. Sloan Foundation Research Fellow and has been awarded a Guggenheim Fellowship. In 1972 he was awarded the American Chemical Society Award for Research in Inorganic Chemistry, and received the American Chemical Society Award for Distinguished Service in the Advancement of Inorganic Chemistry in 1993. He has been elected a Fellow of both the American Association for the Advancement of Science, the American Academy of Arts and Sciences, and the American Chemical Society. [H. EUGENE LEMAY, JR.](#), received his B.S. degree in Chemistry from Pacific Lutheran University (Washington) and his Ph.D. in Chemistry in 1966 from the University of Illinois (Urbana). He then joined the faculty of the University of Nevada, Reno, where he is currently Professor of Chemistry, Emeritus. He has enjoyed Visiting Professorships at the University of North Carolina at Chapel Hill, at the University College of Wales in Great Britain, and at the University of California, Los Angeles. Professor LeMay is a popular and effective teacher, who has taught

thousands of students during more than 40 years of university teaching. Known for the clarity of his lectures and his sense of humor, he has received several teaching awards, including the University Distinguished Teacher of the Year Award (1991) and the first Regents Teaching Award given by the State of Nevada Board of Regents (1997). Å Å BRUCE E. BURSTEN received his Ph.D. in Chemistry from the University of Wisconsin in 1978. After two years as a National Science Foundation Postdoctoral Fellow at Texas A&M University, he joined the faculty of The Ohio State University, where he rose to the rank of Distinguished University Professor. In 2005, he moved to his present position at the University of Tennessee, Knoxville as Distinguished Professor of Chemistry and Dean of the College of Arts and Sciences. Professor Bursten has been a Camille and Henry Dreyfus Foundation Teacher-Scholar and an Alfred P. Sloan Foundation Research Fellow, and he is a Fellow of both the American Association for the Advancement of Science and the American Chemical Society. At Ohio State he has received the University Distinguished Teaching Award in 1982 and 1996, the Arts and Sciences Student Council Outstanding Teaching Award in 1984, and the University Distinguished Scholar Award in 1990. He received the Spiers Memorial Prize and Medal of the Royal Society of Chemistry in 2003, and the Morley Medal of the Cleveland Section of the American Chemical Society in 2005. He was President of the American Chemical Society for 2008. In addition to his teaching and service activities, Professor Bursten's research program focuses on compounds of the transition-metal and actinide elements. Å Å CATHERINE J. MURPHY received two B.S. degrees, one in Chemistry and one in Biochemistry, from the University of Illinois, Urbana-Champaign, in 1986. She received her Ph.D. in Chemistry from the University of Wisconsin in 1990. She was a National Science Foundation and National Institutes of Health Postdoctoral Fellow at the California Institute of Technology from 1990 to 1993. In 1993, she joined the faculty of the University of South Carolina, Columbia, becoming the Guy F. Lipscomb Professor of Chemistry in 2003. In 2009 she moved to the University of Illinois, Urbana-Champaign, as the Peter C. and Gretchen Miller Markunas Professor of Chemistry. Professor Murphy has been honored for both research and teaching as a Camille Dreyfus Teacher-Scholar, an Alfred P. Sloan Foundation Research Fellow, a Cottrell Scholar of the Research Corporation, a National Science Foundation CAREER Award winner, and a subsequent NSF Award for Special Creativity. She has also received a USC Mortar Board Excellence in Teaching Award, the USC Golden Key Faculty Award for Creative Integration of Research and Undergraduate Teaching, the USC Michael J. Mungo Undergraduate Teaching Award, and the USC Outstanding Undergraduate Research Mentor Award. Since 2006, Professor Murphy has served as a Senior Editor for the Journal of Physical Chemistry. In 2008 she was elected a Fellow of the

American Association for the Advancement of Science. Professor Murphy's research program focuses on the synthesis and optical properties of inorganic nanomaterials, and on the local structure and dynamics of the DNA double helix.

**PATRICK M. WOODWARD** received B.S. degrees in both Chemistry and Engineering from Idaho State University in 1991. He received a M.S. degree in Materials Science and a Ph.D. in Chemistry from Oregon State University in 1996. He spent two years as a postdoctoral researcher in the Department of Physics at Brookhaven National Laboratory. In 1998, he joined the faculty of the Chemistry Department at The Ohio State University where he currently holds the rank of Professor. He has enjoyed visiting professorships at the University of Bordeaux, in France, and the University of Sydney, in Australia. Professor Woodward has been an Alfred P. Sloan Foundation Research Fellow and a National Science Foundation CAREER Award winner. He currently serves as an Associate Editor to the Journal of Solid State Chemistry and as the director of the Ohio REEL program, an NSF-funded center that works to bring authentic research experiments into the laboratories of first- and second-year chemistry classes in 15 colleges and universities across the state of Ohio. Professor Woodward's research program focuses on understanding the links between bonding, structure and properties of solid state inorganic functional materials.

**MATTHEW W. STOLTZFUS** received his B.S. degree in Chemistry from Millersville University in 2002 and his Ph.D. in Chemistry in 2007 from The Ohio State University. He spent two years as a teaching postdoctoral assistant for the Ohio REEL program, an NSF-funded center that works to bring authentic research experiments into the general chemistry lab curriculum in 15 colleges and universities across the state of Ohio. In 2009, he joined the faculty of Ohio State where he currently holds the position of Chemistry Lecturer. In addition to lecturing general chemistry, Stoltzfus accepted the Faculty Fellow position for the Digital First Initiative, inspiring instructors to offer engaging digital learning content to students through emerging technology. Through this initiative, he developed an iTunes U general chemistry course, which has attracted over 120,000 students from all over the world. Stoltzfus has received several teaching awards, including the inaugural Ohio State University 2013 Provost's Award for Distinguished Teaching by a Lecturer and he is recognized as an Apple Distinguished Educator.

This hard book is GOOD for those who are new to general chemistry because it is full of information and it doesn't assume you know this like some authors and publishers. It is best to buy this book online instead of a bookstore (college) because you'll pay more. This book also has illustrations to help you, and it will be used for the full one year of general chemistry. I think this book is one of the

best books I had while completing my undergraduate degree. I don't think buyers would be disappointed if bought. Even years after graduating, I still think about this book in terms of the straight-forward information it gives. I hope future buyers will agree.

I needed a chemistry text that would allow me to review the concepts. Some of the well-known texts are great but somehow not really friendly to the non-student who's reading it on his or her own. I agree with one of the reviews that says that this book is a little "chatty," but I think that helps make it more readable for self-study. The order in which concepts are presented helps make the more technical aspects (stoichiometry, electronegativity trends, orbitals, etc) more relevant by the time you arrive at them. The numerous worked examples are wonderful to help with understanding, especially for the non-student, who doesn't have homework, teachers, or grades forcing me to work all of the problems. (I know that's the way you really learn this stuff, so for students out there--your chem teacher is absolutely right that doing the problems is the only way to gain a true understanding.) If I were in a class, I might prefer a text like Brown & LeMay, which is more tightly written and feels more informationally dense. But this one, with its breezy, narrative writing style, suits my needs just fine.

The single star is because this global edition is specifically meant for countries other than USA or Canada, yet with our USA address, there was no message, no clue given that we saw, or any warning that this book was not the one our student is going to need at the American university she is attending. I'm sure it's fine as far as being a good textbook, but why was it even an option for American buyers?

OK I really struggle with Chemistry, and all other books demolish my interest usually with the first few sentences, THIS BOOK, HOWEVER, I'm tempted to buy it completely because it cracks me up. The author(s) are extremely sarcastic at times and tell vivid stories that have left me howling with laughter and holding my stomach. It's definitely made it easier to read, and more enjoyable. Thus far, my favorite note of sarcasm is how they feel about calculators, and my favorite story is the Nitric Acid one by the scientist in 1901.

This book filled with vast knowledge of chemistry has and will continue to further my education in college. As a freshman, buying or even renting books is the key to success in all of my classes. This book will continue to help me for the rest of the semester and course. This book arrived on time and

was and still is in good condition. I have received books in the past like this that were not as in good condition as this book was in when I received it. This book has good quality pages with no tears and does not have any odor surprisingly! The book nearly looks as though it had just been taken out of the manufacturer's plastic. This is a must buy for a college student if your professor requires this book for use. This is a great buy or rental for use, and has great quality without any tears or an aged look. Chemistry: The Central Science Plus Mastering Chemistry, 13th Edition

5 stars because I love the a la carte format. I don't love having 5 star love for college chemistry. But seriously being able to take only the chapter I need to class with me lightened the load in my backpack. I organized into semester 1 and semester 2 using 4" binders and then collated my notes, quizzes, etc with the individual chapters made it much easier to study. The cheaper price helps too.

I'm amazed at the diversity of reviews for this textbook. Usually, I can spot an exceptional science textbook and usually the reviews are pretty much in agreement but this one is an exception. Oh well - we all have our own opinions, and that's a good thing. I'm currently into studying Biochemistry and Physics. I bought this book after seeing a pdf version that was part of a "Great Science Textbooks..." collection. As I started browsing the file I found myself being captivated by just about any section I skipped into. That is, I was learning and re-learning some of the fundamentals which I thought I already knew (and probably should've, but didn't), and it was like an "AHAH!" experience when the light would go on. This was great fun! I enjoyed that so much I immediately ordered the book. I began referring back to it to help me with my Biochem studies (via Lehninger and a couple other texts). The last chapter of this textbook is on Biochemistry and actually does a better job at introducing many of the key aspects of that subject than my Biochemistry textbooks. I still find myself frequently consulting this textbook and its resources for a large variety of issues that would otherwise remain subtle points of confusion or mystery. So, I have to give it 5 stars and a hearty recommendation.

Well written! Coming from a science background, I was thrilled with the clear explanations and examples. Actual problems cover a wide range and there is always a section of questions that integrated what you learned in a previous chapter. Son got a 5 on the AP 2017 using this book, The book is the best!

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