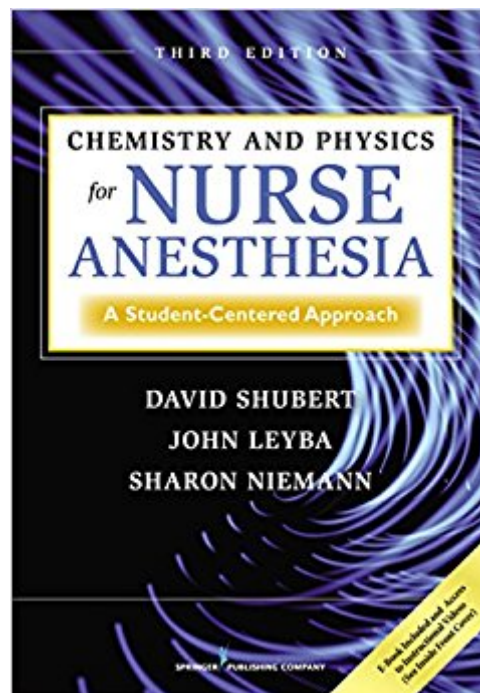




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# Chemistry And Physics For Nurse Anesthesia, Third Edition: A Student-Centered Approach



## Synopsis

With a focus on chemistry and physics content that is directly relevant to the practice of anesthesia, this text--written in an engaging, conversational style--supplies all the scientific information required for the combined chemistry and physics course for nurse anesthesia students. Now in its third edition, the text is updated and reorganized to facilitate a greater ease and depth of understanding. The addition of a third author--a practicing nurse anesthetist--enhances the clinical relevance of the scientific information. Clinical scenarios now begin every chapter, and a concluding chapter, new to this edition, provides detailed, step-by-step solutions to the book's review questions. Also included is a comprehensive list of need-to-know equations. The third edition retains the many outstanding learning features from earlier editions, including a special focus on gases, the use of illustrations to demonstrate how scientific concepts relate directly to their clinical application in anesthesia, and end-of-chapter summaries and review questions to facilitate self-assessment. Fifteen online videos enhance teaching and learning, and abundant clinical application scenarios help reinforce scientific principles and relate them to day-to-day anesthesia procedures. This clear, easy-to-read text will help even the most chemistry- and physics-phobic students to master the foundations of these sciences and competently apply them in a variety of clinical situations.

**NEW TO THE THIRD EDITION:** Increased focus on clinical relevance  
Revised and updated chapters foster ease of understanding  
Clinical application scenarios open each chapter  
A new chapter provides guidance about calculator use and a unique problem-solving method  
Detailed step-by-step solutions clarify answers to end-of-chapter problems  
Comprehensive list of all key equations with explanation of symbols

**KEY FEATURES:** Written in an engaging, informal style for ease of understanding  
Focuses solely on chemistry and physics principles relevant to nurse anesthetists  
Provides end-of-chapter summaries and review questions  
Fifteen online videos enhance teaching and learning  
Includes abundant illustrations that apply theory to practice

## Book Information

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## Customer Reviews

David Shubert, PhD, is a dean in the College of Arts and Sciences at Newman University, Wichita, Kansas, where until recently he designed and cotaught the combined chemistry-physics for nurse anesthesia course with Dr. Leyba. He was inducted into the national Achievement Rewards for College Scientists (ARCS) Foundation prior to joining Newman University in 1987. Although his area of expertise lies in organometallic chemistry, Dr. Shubert has taught introductory, general, organic, analytical, and instrumental analytical chemistry, as well as biochemistry, earth and space science, general physical science, and chemistry/physics for nurse anesthesia. In 1995, Dr. Shubert was honored by his students and peers with the Teaching Excellence Award. He has worked as a chemical consultant with several local industries, including Vulcan Chemicals and BG Products. Working with colleagues from five independent colleges, and with financial support from the National Science Foundation, the Camille and Henry Dreyfus Foundation, and the A. V. Davis Foundation, Dr. Shubert has offered numerous workshops that provided training and access to modern instrumentation to high school chemistry teachers. Most recently, he was recognized by the "Wichita Business Journal" in 2014 as a Healthcare Hero. His research interests have evolved from organometallic chemistry to chemical education.

John Leyba, PhD, is a professor of chemistry and head of the Department of Chemistry and Biochemistry, University of North Georgia, Dahlonega, Georgia. Previously, he was a faculty member at Newman University for 12 years, where he served as the chair of the Division of Science and Mathematics and where he cotaught the combined chemistry-physics for nurse anesthesia course with Dr. Shubert. Dr. Leyba has extensive industrial experience in the Department of Energy Complex. He was senior scientist, senior scientist A, and principal scientist with Westinghouse Savannah River Company. In addition, he was the radiochemistry group leader for Rust Federal Services Clemson Technical Center in Anderson, South Carolina. He was also a visiting assistant professor in the Chemistry Department and adjunct assistant professor in the Department of Environmental Engineering and Science at Clemson University. Dr. Leyba was also the Denver Area director of operations for Canberra Industries. His research interests involve the rapid chemical separation and detection of radioactive materials. Dr.

Leyba has won several teaching awards including the Newman University 2005 Teaching Excellence Award and two Outstanding Didactic Instructor Awards from the Newman University Nurse Anesthesia Program. Sharon Niemann, DNAP, CRNA, is director of the Nurse Anesthesia Program, Newman University, Wichita, Kansas (since 2004). She has practiced as a certified registered nurse anesthetist since 1995 and has been employed as a cardiovascular nurse anesthetist with Anesthesia Consulting Service (Wichita) since certifying. She is a retired captain in the U.S. Army Reserve, having served overseas in spring 2001. Dr. Niemann serves on the Steering Committee, Mid-Continent Regional Center for Health Care Simulation and is a member of numerous professional organizations including the American Association of Nurse Anesthetists (AANA) and the Kansas Association of Nurse Anesthetists (KANA), where she has held numerous offices, including president and treasurer, and currently is the program chair. She was also an item writer for the Council on Certification of Nurse Anesthetists (2006-2009) and a member of Sigma Theta Tau International. Dr. Niemann has presented widely for KANA and other state and local organizations on topics such as conscious sedation, anesthesia for total joint replacement, and anesthesia for cardiovascular procedures. She teaches a variety of courses in the Newman University Nurse Anesthesia Program and is principal investigator and clinical advisor for multiple senior nurse anesthesia thesis projects. She received her Doctor of Nurse Anesthesia Practice degree at Texas Wesleyan University in 2016.

Easy to read.

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