

Chemistry and Physics for Nurse Anesthesia, Second Edition: A Student-Centered Approach

By David Shubert PhD, John Leyba PhD

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Praise for the first edition:

[A] welcome addition to the reference materials necessary for the study of nurse anesthesia....The textbook is divided into logical, easy to use sections that cover all areas necessary for the practice of nurse anesthesia....This is a text that is easy to read and able to be incorporated into any nurse anesthesia chemistry and physics course. I would recommend this textbook to any program director.

--Anthony Chipas, PhD, CRNA
Division Director, Anesthesia for Nurses Program
Medical University of South Carolina

Nurse anesthesia students will welcome the second edition of this text designed for the combined course in chemistry and physics that is required for this program. It is written in a clear, conversational style to counteract the trepidation that often accompanies the study of chemistry and physics, and includes only those core scientific concepts that relate to clinical anesthesia application. Numerous illustrations demonstrate how the scientific concepts relate directly to their clinical application in anesthesia, and plentiful case studies exemplify and reinforce basic concepts. Review question at the end of each chapter facilitate self-assessment.

This second edition offers numerous features that will further assist students with understanding and mastery of the material. These new features are the direct result of knowledge gained from on-line and traditional classroom teaching experiences. They include chapter summaries, additional questions and answers at the end of each chapter specific to nurse anesthesia, end-of-chapter summaries, and lists of formulas and constants discussed in the book. Fifteen videos vividly demonstrate the key principles of the chemistry and physics of nurse anesthesia. Corresponding to various sections of the book, they supplement and illustrate text content. Also available are revised PowerPoint slides for faculty use. The first edition of this popular text is currently being used by eight nurse anesthesia programs throughout the United States and many additional programs plan to adopt the second edition.

New to the Second Edition:

- Emphasizes content in chemistry and physics that relates specifically to anesthesia, with a strong focus on gases
- Includes case studies to illustrate and reinforce knowledge
- Provides additional end-of-chapter problems focused on anesthesia
- Relates core scientific concepts to clinical anesthesia application
- Offers fifteen videos demonstrating key principles of the physics and chemistry of nurse anesthesia

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Editorial Review

From the Back Cover
"Praise for the first edition:

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About the Author
David Shubert, PhD, is Dean of the Undergraduate Studies, Professor of Chemistry, and Director of Learning Assessment at Newman University in Kansas, USA. Dr. Shubert co-teaches Chemistry and Physics course for Nurse Anesthesia with co-author Dr. Leyba. He has taught this combined course for over ten years. Dr. Shubert serves as a Peer Evaluator for the Higher Learning Commission and has served as chemical consultant to industry in a variety of capacities. He has served as an expert witness, and has consulted on topics ranging from the custom synthesis of chemicals, to the development of a recycling system. Dr. Shubert is the recipient of twelve grants including several focusing on improving science education and one large grant ($0.5 M) from the National Science Foundation. He has written a multi-media text (CD-ROM) for Organic Chemistry, which has been picked up by Cengage Learning as an on-line electronic textbook,

and has published journal articles in the Journal of the American Chemical Society and the Journal of Chemical Education. Dr. Shubert's teaching and leadership has been acknowledged multiple times through awards for excellence in teaching (1984, 1995, 2004) and awards for developing outstanding institutional programmes (2007 & 2008). John Leyba, PhD, is Associate Professor of Chemistry and the Chair of the Division of Science and Math at Newman University in Wichita, KS, USA where he has taught Chemistry and Physics since 2002. In addition, Dr. Leyba teaches in the Sonography and Nurse Anesthesia Programs at Newman. Dr. Leyba previously taught at Clemson University (SC) and has worked in industry for Westinghouse Savannah River Company (SC), both as Sr. Scientist and Principal Scientist, and at Canberra Industries (CO) as Director of Operations and Data Management. He is the recipient of multiple awards, including the AAUP Academic Freedom Award (2006), the Newman University Scholarship and Publication Award (2006 & 2009), the Newman University Teaching Excellence Award (2005), the Newman University Special Institution Achievement Award (2010), the Newman University Nurse Anesthesia Program Outstanding Didactic Instructor Award (2009 & 2011), and the Pfizer Fellowship in Chemistry, among others. He has published 29 peer-reviewed articles (research) and 22 technical reports (industry).

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