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Chapter 1 : Maintenance | Testbanknew

General Chemistry: Principles and Modern Applications is recognized for its superior problems, lucid writing, and precision of argument. This edition introduces a number of innovative features--including new Feature Problems, new follow-up Practice Exercises to accompany every in-chapter Example, and a number of new Focus On application boxes.

Petrucci and William S. Upper Saddle River, NJ, Modern texts of general chemistry are considerably better than they were thirty years ago, and the two books reviewed here, Petrucci and Whitten, clearly follow this trend. Both are well-written teaching instruments with lots of student-friendly features. I speak from experience, hav- ing taught out of earlier editions of both, and having heard the comments expressed by students about them. Both are used annually by tens of thousands of students. The suc- cessful formulas for writing good general chemistry texts are currently being used in at least a half dozen clonelike cousins, making adoption decisions more difficult. Both texts succeed, for the most part, in accomplishing what they set out to do. My guess is that Petrucci would also want the text used by chemistry majors. Mathematics levels and expectations are quite similar: Appendices in both books present calculator-based reviews. Petrucci briefly footnotes integrated solutions to rate equations for first- and second-order kinetic processes. More mathematically inclined students will appreciate these nonintimidating inclusions. Both books contain numerous chapter addenda. In their new book, Talking About Leaving: Why Undergraduates Leave the Sciences Westview Press , Seymour and Hewitt conclude that large, impersonal intro- ductory classes are most responsible for student dropout. Comparison of chapter titles reveals substantial simi- larity in content and its typical or accepted order of presen- tation. The 28 chapters in each could theoretically be pre- sented 14 in the first semester, and 14 in the second. How- ever, this division is arbitrary, as professors may opt to omit as many as five or so concluding chapters dealing with de- scriptive and organic biochemistry. Students challenged by these concepts may prefer the Petrucci approach, en- countering enthalpy et al. In any case, it would seem better to introduce free energy before equilibrium as does Whitten than afterwards, as does Petrucci. Since students per- ceive MO to be a complex theory i. VSEPR theory, a very welcome approach to molecular ge- ometry, is also given twice as much space in Whitten. On this basis, both texts are written above the reading level of their primary intended audiences. Treatment of the less-than-conventional BF3 molecule allows for a further comparative example of content level and textual similarity. Petrucci uses less than a page, concentrating on its Lewis structure and four resonance hybrid contributors. Whitten follows this up with two exercises, asking the student to write the Lewis formula for BF3 and noting its exception to the octet rule, and calling for the correct hybridization in the central atom of the similarly structured BCl3 molecule. Petrucci also has two related exercises. End-of-chapter problems abound in the texts, number- ing over each and presented in a wide range of diffi- culty and complexity levels. Dudley Herschbach Fall issue of Liberal Education calls for problems that do more than provide just the right data. Both Petrucci and Whitten try to answer such a call. Another selling point for both texts is the plethora of good solved examples, nearly each. Many teachers spend a significant fraction of classroom instructional time going over examples. Please allow your curiosity and interest to be aroused by reading over the following lists of features, which caught my eye in each text. Both texts take the conventional approach in dealing with the Aufbau filling orders and electron configurations of transition metal atoms, and have figures showing mne- monic aids. This subject will no doubt be clarified in time. Importance delegated to the subject of quantum numbers has pretty much settled out in the writing of general chem- istry texts. Petrucci and Whitten once again agree, grant- ing something less than two pages each to the subject. Only Whitten makes mention of equivalent weights and normality, concepts still used intermittently in chemis- try, but infrequently given much attention today. And Whitten presents two methods of balancing redox reactions, the change of oxidation number method and the half-reac- tion method. Petrucci uses only the latter. Whitten clings to the older angstrom units to express atom-sized dimen- sions, whereas Petrucci uses picometers. Both books come equipped with the now expected full comple- ment of manuals, study guides, transparencies, test banks, videodiscs, CD-ROMS, and the like.

Petrucci and Whitten have broad appeal with many strengths and few weaknesses. Choosing one over the other would seem to present a real dilemma.

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Chapter 2 : Petrucci & Harwood, General Chemistry: Principles and Modern Applications, 7th Edition | Pea

Above all else, General Chemistry is known for accuracy, a precise and clear writing style & complete coverage of the principles. Concepts are introduced, fully developed, and concluded. Concepts are introduced, fully developed, and concluded.

More than any other, this text offers balance-in the topics presented, and in its presentation of the subject of chemistry. The authors focus on three mains areas to help readers master the core concepts of general chemistry and enhance their problem-solving skills: For anyone who wants a relaxed, easy-to-read book that emphasizes major topics in chemistry as well as problem-solving techniques. Customer Book Reviews Trades readability for depth and rigor By Bruce Nourish on May 24, This text is best suited for very good students who are motivated, comfortable reading English at a high level and mathematically adept: It contains far more material than could possibly be covered in a standard freshman general chemistry sequence, even with a good class. The authors assume that their audience is composed of the students I described initially I am told it is the textbook at MIT , and leave it to the instructor to "break it down" for the students. Initially, I was not fond of this book, but I have slowly changed my mind, and I believe I have a better grasp of introductory chemistry thanks to the extra depth it goes to and the challenges it made me rise to. It is an excellent text with a generally friendly approach to introductory topics, and there are many nice photographs and discussion boxes containing info about practical chem applications. For some reason, the authors include a significant section on organic chemistry in chapter 2, far before they discuss bonding Other than that, this book is great. Better than four out of five other general chem texts. Could be much better A Customer on Sep 19, It is because of textbooks such as this one that students lose interest in chemistry, and, worse, science in general. Yes, it is filled with LOTS of information, but there are many instances in which otherwise relatively simple concepts are twisted into something incomprehensible. In some cases, it seemed that the authors went out of their way to explain a topic in the most convoluted manner possible. Good Self Paced Study Reference By Gw on Apr 23, I am currently reading this text book as a chemistry refresher so these concepts are familiar to me. I found this book easier to understand in comparison to my original class text. This book is easy to read and the concepts are clearly defined. This book does not rely heavily on calculations as other books do which makes it easier to read without having to stop and do a calculation every other paragraph. I would recommend this book for students who want a companion book for their class work or for those who need to refresh on general concepts. Li on Nov 10, This book is exactly the title says it is: It does a more than adequate job at accomplishing this and covering not only the basics but giving you a taste of slightly more complex things in a very obvious way. The class has a pre-requisite for freshmen chemistry. For example, the book does not wast to much time in the introductory stuff like nomenclature, how to visualize matter, classification of matter etc. Other than that the book is very very good for the non introductory stuff, like thermodynamics, electrochemistry, nuclear chemistry etc. The textbook is called "Introductory Chemistry 3 edition, Nivaldo J. The book arrived 5 days after I placed the order. It was in a "very good, clean condition" as the seller advertised. Thank you for doing business the way God meant it to be - the old fashioned way where you deliver what you advertise. I order books often and I will definitely look to use this vendor in the future. My organization and I are extremely satisfied! Easy to understand it helped my daughter with a course in which she was struggling. She went on to make an A in that class. The teacher was like who needs books. By A Russell on Jul 04, The textbook arrived on time and in outstanding condition. Now my daughter will not have to lug as many heavy books back and forth to school. My son is using it everyday. Add a Book Review Book Summary: Hill , Ralph H. Petrucci , Terry W. This particular edition is in a Hardcover format. It was published by Prentice Hall and has a total of pages in the book. To buy this book at the lowest price, Click Here.

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(California State University, San Bernardino), F. Geoffrey Herring (University of British Columbia), Jeffry D. Madura (Duquesne University) and Carey Bissonnette (University of Waterloo) in pdf.

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Professor Petrucci, now retired from teaching, is the author of several books, including General Chemistry with John W. Hill. William S. Harwood received his www.nxgvision.com from the University of Massachusetts, Amherst and his Ph.D. in Inorganic Chemistry from Purdue University in

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General Chemistry: Principles and Modern Applications is recognized for its superior problems, lucid writing, and precision of argument. This updated and expanded edition retains the popular and innovative features of previous editionsâ€"including Feature Problems, follow-up Integrative and Practice Exercises to accompany every in-chapter.

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