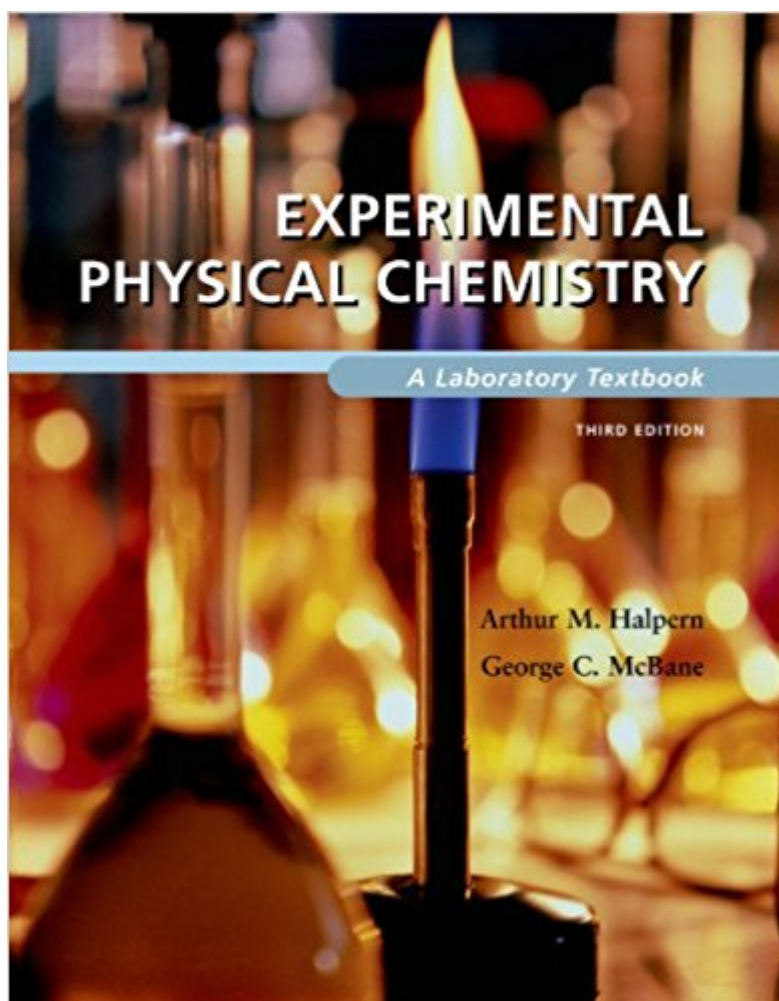


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Experimental Physical Chemistry: A Laboratory Textbook



Synopsis

Appropriate for junior-level courses, the modernized new edition of Halpern and McBane's physical chemistry lab manual offers an exceptional variety of tested and proven experiments as well as detailed theoretical background material and clearly stated procedural objectives to help students understand the context and purpose of each procedure. The manual is well suited to accompany Atkins/de Paula, Physical Chemistry, Eighth Edition, but it works equally well as a stand-alone manual or with any other text. In addition, the labs represent challenging, quantitative determinations of properties that can be checked against literature values; and, in many cases, they demonstrate the advantages that the computer offers in data acquisition, data analysis, and also in the computation of physical chemical properties.

Book Information

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Customer Reviews

'This is an interesting undergraduate chemistry textbook because, in contrast to most other textbooks in this area, it deals solely with aspects of practical undergraduate physical chemistry.' - Wendy Brown, Education in Chemistry

ARTHUR HALPERN, Indiana State University, USA. GEORGE MCBANE, Grand Valley State University, USA.

This book is a very useful book to have in p-chem lab. If you've taken p-chem, you'll know the lab is a painful experience no student wants to endure. So when you can get your hands on a useful tool that makes your experience a little easier, it's always worth getting. This book has all of the instructions, background theory, and suggestions for data analysis a student needs to run the experiment. I would have been lost without this book in my p-chem lab - and I am a straight A chemistry major. The only reason I give it 4 stars instead of 5 stars is that it gives you good clues for the data analysis, but it doesn't tell you how to do all of the data analysis. It's kind of like when going to a teacher for help and they only give you hints instead of telling you how to do a problem.

This laboratory textbook is well-written. There are also supporting documents available from the book website. These documents lay out the materials and supplies needed and experimental precautions for each of the discussed experiments. There is also an excel program available for helping the experimenter to analyze the experimental data. This is clearly one of the better written P-Chem laboratory textbooks on the market.

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