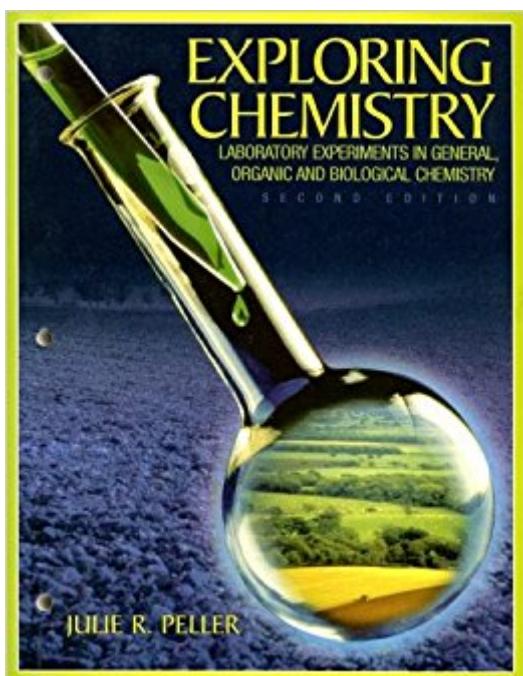


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# Exploring Chemistry Laboratory Experiments In General, Organic And Biological Chemistry (2nd Edition)



## **Synopsis**

This lab manual is organized and written to make the experiments more applicable to users' daily lives. This approach also serves to make the experiments more understandable. New updated background information and additional figures and pictures provide clearer representations of concepts to facilitate learning. Many labs relate specifically to allied health fields. An experiment on Acid Rain and Natural Buffers connects concepts of acids and bases to real life concerns. A safer and more environmentally conscious lab experience is provided by incorporating 4 major strategies in the laboratory procedures: smaller scale laboratory procedures which decrease chemical exposure and chemical waste; the substitution of non-hazardous chemicals for otherwise hazardous ones; the conversion of some basic tests to class-wide observations-demonstrations; and elimination of experimental tests of limited value. A chemistry lab manual for chemists or non-science professionals.

## **Book Information**

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## **Customer Reviews**

Missing lab pages so it was useless, which I could get a refund. Sent back as I had to buy one after not being able to do my homework.

Too many pages were missing. I could do my homework.

Book was missing several pages. Had to return

I rented this and it's missing pages so I can't even do the work for class!! Waste of money

It was poor quality

This book is full of typos - typos that are important to laboratory procedure. In my honest opinion, this book needs to be gone over and corrected. It's an embarrassment to the classroom. For example: Experiment 11 - the number four data table says "10 molar solution" and should be "1 molar solution". Question number two in the reflected exercise says "procedure 3" and should be "procedure 4". Chromic acid reagent is toxic and should not be used by students at this level (not to mention expensive to dispose). It is used in experiments 23 and 24. Phenol is also dangerous and is used in experiment 24. Experiment 30 uses a reagent with a carcinogen - Seliwanoff, which, understandably, should not be used. Removing this reagent invalidates the entire scope of the experiment. Question five in experiment 23's reflective exercise is beyond the scope of the covered material. Olestra (in pure form) potato chips no longer exist on the market, and have not for many years. Experiment 32 requires them. Some materials necessary are no longer available - and have NOT been for nearly 10 YEARS! The chromatography plate in experiment 28 has no suitable replacement. The procedures in all experiments are generally unclear, which is a concern when dealing with chemicals - especially ones that are dangerous as mentioned above.

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