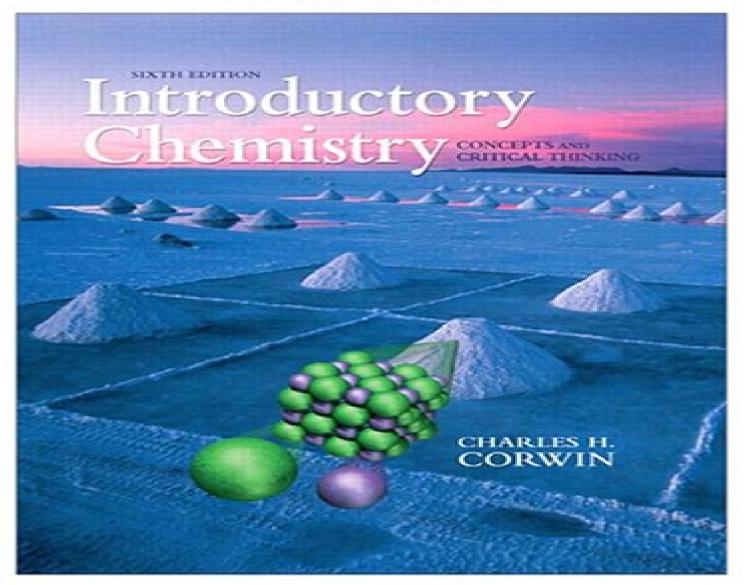
# LABORATORY MANUAL

Charles H. Corwin



# **Laboratory Manual Charles Corwin**

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Chemistry In this newest version the changes and improvements include particular attention to the environmental issue This version does not contain any procedures involving lead mercury chromium chloroform or carbon tetrachloride experiments that utilize 13 X 100 mm test tubes rather than 1 6 X 150 mm test tubes so as to further reduce chemical waste No special equipment is required and the labs are not microscale an increased effort to ensure the safety of students in the laboratory operations that involve even minimal potential danger have been avoided Students are alerted to procedures that should be performed carefully and the prelaboratory assignments have questions regarding safety Example Exercises that illustrate the calculations associated with quantitative experiments earlier placement of chemical reactions to motivate students while experiencing highly visual observations and color changes Experiment 10 Analysis of a Penny a paper chromatography experiment on the Separation of Food Colors and Amino Acids Annotated Instructor's Manual to accompany the Laboratory Manual TheAnnotated Instructor's Manual that complements the lab manual helps assure a successful laboratory program. The AIE offers general comments suggests unknowns that give good results and provides answers to all of the postlaboratory assignments It also contains a master list of reagents suppliers for every experiment This feature is especially appreciated by stockroom personnel when ordering chemicals and preparing solutions

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