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**PREFACE to the SEVENTH EDITION**  
**SAFETY PRECAUTIONS**  
**LOCKER INVENTORY**  
**WASTE DISPOSAL**  

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- G Solubility Rules
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- J Answers to Prelaboratory Assignments
At a chemistry conference, an instructor using the lab manual mentioned that the experiments were remarkably “bullet-proof.” I responded that our department instructs over 1000 intro chem students in the laboratory each year, and our chemistry program employs rotating adjunct faculty who bring a fresh set of eyes to the experiments we supervise. This constant turnover affords ongoing feedback and the opportunity to further refine each procedure and assignment.

The *Pearson Laboratory Manual for Introductory Chemistry, 7e*, continues to evolve with increased sensitivity to environmental and safety concerns in the laboratory. In this edition, we have indicated “green chemicals” and a recycle icon appears in the margin of each procedure as a reminder to students that chemicals are to be disposed of in the waste containers provided.

**What’s New in the Seventh Edition?**

Responding to environmental regulations and instructor reviews of the previous edition, students will benefit from a variety of new content in the Seventh Edition including:

- **Environmental Icons** to alert students to recycle chemical waste.
- **Instructor Demonstrations** to reduce chemical waste.
- **Experimental Procedures** changes that provide a better work flow.
- **Prelaboratory Assignments** to help students prepare for experiments.
- **Postlaboratory Assignments** to help students synthesize principles in experiments.

**What Features are in each Experiment?**

To help introductory chemistry students be prepared for laboratory and to have a safe experience, each experiment has the following features:

- A set of **Objectives** that summarize the goals for each experiment.
- A **Discussion** with example exercises that illustrate the calculations and equations.
- A list of **Equipment and Chemicals** to organize the experimental materials.
- A stepwise **Procedure** to systematically guide the flow of activity.
- A **Prelaboratory Assignment** with safety precautions to prepare students before lab.
- A **Data Table** to help students learn to accurately record observations and measurements.
Instructor’s Manual and Quiz Item File

A complementary Instructor’s Manual is provided with each adoption of the laboratory manual. The Annotated Instructor’s Edition contains the following for each experiment: suggested unknowns and directions for dispensing and preparing solutions, sample data tables, answers to postlaboratory assignments, and a Quiz Item File containing over 500 class-tested questions.

The Annotated Instructor’s Edition also contains a Master List of Reagents & Suppliers for all chemicals required for each experiment, along with directions for the preparation of aqueous solutions. A list of websites, addresses, and phone numbers of chemical and equipment suppliers is provided to assist stockroom personnel.

Acknowledgments

These latest experiments reflect the suggestions of instructors and students who have emailed questions and comments. A successful laboratory program is helped immeasurably by capable stockroom personnel. The ongoing refinement of these experiments has been facilitated by our stockroom lab technicians, Steven Cox and Cuong Bui. I, along with my colleagues, greatly appreciate the support provided by Steve, Cuong, and staff.

I am grateful to Anastasia Slesareva, Pearson Content Producer, Science, for her helpful discussions and for keeping everything flowing seamlessly and on schedule for this latest edition.

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