



## ***Hazardous Materials Chemistry***

Second Edition

**Author:** Armando S. Bevelacqua

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### **Description:**

The second edition of Hazardous Materials Chemistry explores basic principles of chemistry and toxicology so that first responders can efficiently identify a chemical hazard, anticipate potential outcomes, and make safe and informed decisions. Step-by-step coverage of the names of chemical families and their general categorical hazards and incompatibilities enable readers to not only grasp the science behind the chemicals and reactions but also apply principles to actual incidents. An all-new chapter on infrared spectroscopy brings the book up to date with the latest detection technology used in fire departments today.

### **Product Benefits:**

- designed to follow the National Fire Academy FESHE course outcomes for hazardous materials chemistry
- offers a straightforward approach to the science so that readers can more readily understand technical concepts
- basic chemistry and toxicology concepts are combined with practical, hands-on exercises, preparing practitioners for the real world
- a new chapter on infrared spectroscopy contains actual spectrographs that allow students to visualize and understand printouts in order to learn how to make informed decisions in HazMat response
- an instructor's guide on CD is also available, offering PPT, lecture outlines, chapter quizzes as well as answers to question and problems from the book.

### **Table of Contents:**

FESHE Correlation Grid 1. Chemical structure and physical effects 2. Inorganic compounds 3. Organic Compounds I :Organic structure 4. Organic Compounds II :NonPolor compounds 5. Organic Compounds III : Polor Compounds 6. Science Officers reference 7. InfraRed Spectroscopy Glossary Acronyms Index