

# Hazardous Materials Awareness And Operations Study Guide

PHMSA's 2016 Emergency Response Guidebook provides first responders with a go-to manual to help deal with hazmat transportation accidents during the critical first 30 minutes. DOT's goal is to place an ERG in every public emergency service vehicle nationwide. To date, nearly 14.5 million free copies have been distributed to the emergency response community through state emergency management coordinators. Members of the public may purchase a copy of the ERG through the GPO Bookstore and other commercial suppliers. First responders, we want your feedback! Submit your name, organization, contact information, and comments to [ERGComments@dot.gov](mailto:ERGComments@dot.gov).

The frequency of lawsuits in the private and public sectors is proliferating, and the fire service is not immune. The protections afforded by Sovereign Immunity have eroded, and fire departments are rightfully being held to quality standards. They face an increasing number of responsibilities that expose them to litigation. Given his legal background and ongoing active role in the fire service, the author is in a unique position to provide expertise on how to avoid legal problems by learning from the experiences of others. The second edition of *Fire Service Law* continues to provide much-needed coverage of the key areas in which a firefighter or fire department is likely to encounter litigation. The fundamental legal principles presented will serve as an excellent foundation for proper decision making and protocol in a fire service organization. The real-life case studies and relevant examples taken from today's headlines are valuable tools in the study of fire and EMS law. End-of-chapter review questions correspond to the case studies, and Expand Your

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Learning exercises are included for student and group assignments. Readers of this authoritative guide can stay abreast of the latest court decisions affecting fire department operations by accessing the author's Fire, EMS, & Safety Law Newsletter website.

Each new print copy of Hazardous Materials: Awareness and Operations also includes Navigate 2 Advantage Access that unlocks a complete eBook, Study Center, homework and Assessment Center, and a dashboard that reports actionable data. Experience Navigate 2 today at [www.jblnavigate.com/2](http://www.jblnavigate.com/2). A fire fighter s ability to recognize an incident involving hazardous materials or weapons of mass destruction (WMD) is critical. They must possess the knowledge required to identify the presence of hazardous materials and WMD, and have an understanding of what their role is within the response plan. The second edition of Hazardous Materials Awareness and Operations will provide fire fighters and first responders with these skills and enable them to keep themselves and others safe while mitigating these potentially deadly incidents. Hazardous Materials Awareness and Operations, Second Edition meets and exceeds the requirements for first responders within the 2013 Edition of NFPA 472, Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents. Additionally, the material presented also exceeds the hazardous materials response requirements of the Occupational Safety and Health Administration (OSHA) and the Environmental Protection Agency (EPA). Hazardous Materials Awareness and Operations provides in-depth coverage of: The properties and effects of hazardous materials and WMDs How to calculate potential danger and initiate a response plan Selection, use, advantages, and disadvantages of personal protective equipment Mass and technical decontamination Evidence preservation and

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sampling Product control Victim rescue and recovery Air monitoring and sampling Illicit laboratory incidents The second edition features: A new chapter on Fire Smoke designed to teach hazardous materials responders how to prevent, protect, detect, diagnose, and appropriately treat smoke inhalation. Knowledge and Skills Objectives correlated to the 2013 Edition of NFPA 472, Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents. Detailed step-by-step skill drills with which include the corresponding NFPA job performance requirement. Scenario based learning tools including You are the Responder, Responder in Action, and Voices of Experience case studies to encourage critical thinking skills. Responder Tips and Safety Tips to provide helpful advice from hazardous materials veterans."

## Hazardous Materials

"Meets the 2008 NFPA standard 472" - from front cover.

This guide serves as a quick reference for Hazardous Materials Teams in the field. It discusses teams involved, how to organize them, and the first steps that lay the foundation for an effective hazardous incident response.

The Second Edition of Exam Prep: Hazardous Materials Awareness and Operations is designed to thoroughly prepare you for a Hazardous Materials certification, promotion, or training examination by including the same type of multiple-choice questions you are likely to encounter on the actual exam. To help improve examination scores, this preparation guide follows Performance Training Systems, Inc.'s Systematic Approach to Examination Preparation. Exam Prep: Hazardous Materials Awareness and Operations is written by fire personnel explicitly for fire personnel, and all content has been verified with the latest reference

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materials and by a technical review committee. Your exam performance will improve after using this system! Hazardous Materials Awareness & Operations with Premier custom for Ohio

Does the identification number 60 indicate a toxic substance or a flammable solid, in the molten state at an elevated temperature? Does the identification number 1035 indicate ethane or butane? What is the difference between natural gas transmission pipelines and natural gas distribution pipelines? If you came upon an overturned truck on the highway that was leaking, would you be able to identify if it was hazardous and know what steps to take? Questions like these and more are answered in the Emergency Response Guidebook.

Learn how to identify symbols for and vehicles carrying toxic, flammable, explosive, radioactive, or otherwise harmful substances and how to respond once an incident involving those substances has been identified. Always be prepared in situations that are unfamiliar and dangerous and know how to rectify them. Keeping this guide around at all times will ensure that, if you were to come upon a transportation situation involving hazardous substances or dangerous goods, you will be able to help keep others and yourself out of danger. With color-coded pages for quick and easy reference, this is the official manual used by first responders in the United States and Canada for transportation incidents involving dangerous goods or hazardous materials.

First responders who arrive on scene of a hazardous materials incident may be assigned to an engine, ladder truck, rescue, or ambulance with very little sophisticated

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HAZMAT equipment. Despite these limitations, their actions during the initial response will often set the stage for the success or failure of the entire event. Many incidents start out as minor “routine” events that suddenly escalate when something goes terribly wrong. Perhaps first responders did not anticipate the involvement of hazardous materials in a response to a rear-end collision involving two passenger vehicles, an EMS call at a residence for difficulty breathing, or a trash fire. That is until it was too late! First responders, despite their best intentions, can quickly become part of any hazardous materials problem. The results can be first responders who are killed or seriously injured, or those who suffer devastating illnesses years after exposure to a hazardous material. Even if you have hours of training on hazardous materials response, this book will provide every reader with...

- Practical advice based on the real-life experiences of first responders
- A one-stop source on topics such as atmospheric monitors and class B foam
- Steps to managing “routine” incidents to prevent them from becoming disasters
- Limitations of federal hazardous materials regulations you need to know
- Real-world examples of first responders who won (or lost) the battle with hazardous materials

First responders who arrive on scene of a hazardous materials incident may be assigned to an engine, ladder truck, rescue, or ambulance with very little sophisticated HAZMAT equipment. Despite these limitations, their actions during the initial response will often set the stage for the success or failure of the entire event. Many incidents start out as minor “routine” events that suddenly

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escalate when something goes terribly wrong. Perhaps first responders did not anticipate the involvement of hazardous materials in a response to a rear-end collision involving two passenger vehicles, an EMS call at a residence for difficulty breathing, or a trash fire. That is until it was too late! First responders, despite their best intentions, can quickly become part of any hazardous materials problem. The results can be first responders who are killed or seriously injured, or those who suffer devastating illnesses years after exposure to a hazardous material. Even if you have hours of training on hazardous materials response, this book will provide every reader with...

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Designed to thoroughly prepare you for a Fire Department Safety Officer certification, promotion, or training examination.

Contains an illustrated guide to firefighting, and includes information on hazardous materials, terrorism, and the requirements for passing the Firefighter I and II, and complies with the 2002 standards for firefighting professionals.

Developed jointly by the governments of Canada, the U.S. and Mexico for use by fire fighters, police, and other emergency services personnel who may be the first to

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arrive at the scene of a transportation incident involving dangerous goods. It is primarily a guide to aid first responders in quickly identifying the specific or generic hazards of the material(s) involved in the incident, and protecting themselves and the general public during the initial response phase of the incident. It is not intended to provide information on the physical or chemical properties of dangerous goods. Comprehensive!

Hazardous Materials Awareness and Operations: Skills and Drills DVD walks students and experienced fire fighters alike through the most important hazardous materials skills responders need to know. Capturing more than 50 real-life scenes, this DVD will teach students how to successfully perform each skill and offers helpful information, tips, and pointers designed to facilitate progression through practical examinations. This exciting DVD gives students the chance to witness responders in action and in "real" time.

This version includes all 21 chapters of Essentials of Fire Fighting, 6th Edition and adds three chapters written and validated to meet the emergency medical and hazardous materials requirements of NFPA® 1001, 2013 Edition.

Chapter 22 specifically addresses the Firefighter I and Firefighter II knowledge and skills requirements for the emergency medical care competencies identified in NFPA® 1001, 2013 Edition Chapter 4. Chapters 23 and 24 meet the First Responder Awareness and Operations Levels for Responders according to NFPA® 472:

Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents, 2012 Edition and OSHA 1910.120. The chapters also provide

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validated content to meet Section 6.6, Mission-Specific Competencies: Product Control, of NFPA® 472. The hazardous materials information is adapted from the IFSTA Hazardous Materials for First Responders, 4th Edition.

Marked by its risk-based response philosophy, Hazardous Materials Incidents is an invaluable procedural manual and all-inclusive information resource for emergency services professionals faced with the challenge of responding swiftly and effectively to hazardous materials and terrorism incidents. Easy-to-read and perfect for use in HazMat awareness, operations, and technician-level training courses, this "Operations Plus" book begins by acquainting readers with current laws and regulations, including those governing emergency planning and workplace safety. Subsequent chapters provide in-depth information about personal protective equipment and its limitations; protective actions ranging from site management and rescue through evacuation and decontamination; product control including the use of carbon monoxide detectors; responses to terrorism and terrorist groups; law enforcement activities such as SWAT operations and evidence collection; and more! A key resource for every fire, police, EMS, and industrial responder, Hazardous Materials Incidents is one of the few books available today that is modeled on current ways of thinking about HazMat and terrorism responses and operations. This Student Workbook contains exercises to reinforce what you will learn in both Hazardous Materials Awareness and Operations, Third Edition and the

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classroom. The exercises cover the 2017 Edition of NFPA 1072: Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications. It is designed to encourage critical thinking and aid comprehension through a variety of exercises in each chapter, including: Multiple Choice--Numerous multiple-choice questions prepare you for exams. Hazardous Material Alarms--Scenarios help you develop your decision-making skills by describing emergencies and challenging you to come up with solutions. Skill Drills--Test your skills with photo jumbles and caption fill-ins. Place photos in the correct order to test your knowledge of a skill and fill-in the captions to ensure that you know all the details of each step. Labeling--Master visual recognition with labeling activities. And More--True/false, matching, short answer, and fill-ins! Answers for the end of chapter case scenario "On Scene" can be found in the online Instructor's Tool Kit.

Fundamentals of Fire Fighter Skills, Canadian Fourth Edition is specifically designed for Canadian fire service. The National Fire Protection Association (NFPA) and the International Association of Fire Chiefs (IAFC) are pleased to bring you the most comprehensive, evidence-based curriculum that is sure to transform Canada's fire fighter education. This edition is designed for Canadian fire services that are transitioning their training to NFPA compliance or wish to align their training with recognized best practices. The Canadian Fourth Edition features exceptional content, along with current research, standards, and technology, including the latest research-

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based data from UL Firefighter Safety Research Institute and the National Institute of Standards and Technology (NIST). This research explains the interrelationship between heat release rates, reduced time to flashover, and the dangers associated with fighting fires in modern lightweight-constructed buildings. Foundational knowledge is covered extensively, along with an orientation and history of Canada's fire service and extreme cold weather operations. The content in the Canadian Fourth Edition meets and exceeds the job performance requirements in the 2019 edition of NFPA 1001, Standard for Fire Fighter Professional Qualification, including the requirements for operations level personnel in the 2017 Edition of NFPA 1072, Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, and the 2018 Edition of NFPA 472, Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents. New to the Canadian Fourth Edition:

- Five distinct sections: Fire fighter I, Fire fighter II, Hazardous Materials Awareness, Hazardous Materials Operations, Hazardous Materials Operations: Mission Specific
- A personal health and well-being section that addresses physical fitness, nutrition, hydration, sleep, heart disease, cancer, tobacco, alcohol and illicit drugs, counseling and stress management, and suicide awareness and prevention.
- The importance of respiratory protection and the use of air monitoring devices during salvage and overhaul operations.
- The need to perform field reduction of contaminants to

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remove dirt and debris from personal protective equipment before returning to the station. • The basic principles of community risk reduction, including the integration of emergency response, engineering enforcement, education, and economic incentives as cohesive strategies to manage community risks. • Critical fire suppression tactics, including those used for concealed space fires, attic fires, buildings with solar photovoltaic systems, and chimney fires. • Updated research and statistics to ensure evidence-based recommendations and protocols. The Canadian Fourth Edition Features • Alerts to additional content available in Navigate 2. • Thought-provoking case studies. • Detailed chapter summaries, key terms, and

A fire fighter's ability to recognize an incident involving hazardous materials is critical. They must possess the knowledge required to identify the presence of hazardous materials and weapons of mass destruction (WMD), and have an understanding of what their role is within the response plan. Hazardous Materials Awareness and Operations will provide fire fighters and first responders with these skills and enable them to keep themselves and others safe while mitigating these potentially deadly incidents. Hazardous Materials Awareness and Operations is the center of an integrated teaching and learning system that combines groundbreaking content with dynamic new features to support instructors and to help prepare students for the job. The text meets and exceeds the requirements for Fire Fighter I and II certification and satisfies the core competencies for operations level responders including the eight mission-specific responsibilities for first responders within the 2008 Edition of NFPA 472, Standard for Competence of

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Responders to Hazardous Materials/Weapons of Mass Destruction Incidents. Additionally, the material presented also exceeds the hazardous materials response requirements of the Occupational Safety and Health Administration (OSHA) and the Environmental Protection Agency (EPA). Hazardous Materials Awareness and Operations provides in-depth coverage of: the properties and effects of hazardous materials and WMDs; how to calculate potential danger and initiate a response plan; selection, use, advantages, and disadvantages of personal protective equipment; performing mass and technical decontamination; performing evidence preservation and sampling; performing product control. Performing air monitoring and sampling; performing victim rescue and recovery; and responding to illicit laboratory incidents. Listen to a Podcast with Hazardous Materials Awareness and Operations author Rob Schnepf to learn more about this training program! Rob discusses the NFPA 472 standard, changes in responder training operations, and the importance of writing a "street smart" textbook. To listen now, visit: <http://d2jw81rkebrcvk.cloudfront.net/assets/multimedia/audio/HazMat.mp3>.

Learn more about how health nutrition experts can help you make the correct food choices for a healthy lifestyle The eighth edition of the Dietary Guidelines is designed for professionals to help all individuals, ages 2 years-old and above, and their families to consume a healthy, nutritionally adequate diet. The 2015-2020 edition provides five overarching Guidelines that encourage: healthy eating patterns recognize that individuals will need to make shifts in their food and beverage choices to achieve a healthy pattern acknowledge that all segments of our society have a role to play in supporting healthy choices provides a healthy framework in which individuals can enjoy foods that meet their personal, cultural and traditional preferences within their

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food budget This guidance can help you choose a healthy diet and focus on preventing the diet-related chronic diseases that continue to impact American populations. It is also intended to help you to improve and maintain overall health for disease prevention. \*\*NOTE: This printed edition contains a minor typographical error within the Appendix. The Errata Sheet describing the errors can be found by clicking here. This same errata sheet can be used for the digital formats of this product available for free. Health professionals, including physicians, nutritionists, dietary counselors, nurses, hospitality meal planners, health policymakers, and beneficiaries of the USDA National School Lunch and School Breakfast program and their administrators may find these guidelines most useful. American consumers can also use this information to help make healthy food choices for themselves and their families.

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Each new print copy of Hazardous Materials: Awareness and Operations also includes Navigate 2 Advantage Access that unlocks a complete eBook, Study Center, homework and Assessment Center, and a dashboard that reports actionable data. Experience Navigate 2 today at [www.jblnavigate.com/2](http://www.jblnavigate.com/2). A fire fighter's ability to recognize an incident involving hazardous materials or weapons of mass destruction (WMD)

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is critical. They must possess the knowledge required to identify the presence of hazardous materials and WMD, and have an understanding of what their role is within the response plan. The second edition of Hazardous Materials Awareness and Operations will provide fire fighters and first responders with these skills and enable them to keep themselves and others safe while mitigating these potentially deadly incidents. Hazardous Materials Awareness and Operations, Second Edition meets and exceeds the requirements for first responders within the 2013 Edition of NFPA 472, Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents. Additionally, the material presented also exceeds the hazardous materials response requirements of the Occupational Safety and Health Administration (OSHA) and the Environmental Protection Agency (EPA). Hazardous Materials Awareness and Operations provides in-depth coverage of:

- The properties and effects of hazardous materials and WMDs
- How to calculate potential danger and initiate a response plan
- Selection, use, advantages, and disadvantages of personal protective equipment
- Mass and technical decontamination
- Evidence preservation and sampling
- Product control
- Victim rescue and recovery
- Air monitoring and sampling
- Illicit laboratory incidents

The second edition features:

- A new chapter on Fire Smoke designed to teach hazardous materials responders how to prevent, protect, detect, diagnose, and appropriately treat smoke inhalation.
- Knowledge and Skills Objectives correlated to the 2013 Edition of NFPA 472, Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents.
- Detailed step-by-step skill drills with which include the corresponding NFPA job performance requirement.
- Scenario based learning tools including You are the Responder, Responder in

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Action, and Voices of Experience case studies to encourage critical thinking skills. • Responder Tips and Safety Tips to provide helpful advice from hazardous materials veterans. Designed for use within courses based on the Fire and Emergency Services in Higher Education (FESHE) Fire Prevention model curriculum, Principles of Fire Prevention, Third Edition will provide readers with a thorough understanding of how fire prevention and protection programs can greatly reduce fire loss, deaths, and injuries. The Third Edition features current statistics, codes, standards and references to the latest edition of NFPA Standard 1031, Standard for Professional Qualifications for Fire Inspector and Plan Examiner. Additionally, Principles of Fire Prevention, Third Edition covers the elements of public education, plan review, inspection, fire investigation, community risk reduction as well as the logistics of staffing and financial management so that readers are fully prepared to lead successful fire prevention programs.

Based on Bloom's Taxonomy, the books include tests, answer keys, and explanations at each of three levels: Cognitive or Comprehensive Skills, Application and Analysis, and Evaluation and Synthesis. Each level includes three, 100-question exams to allow learners to practice answering questions, as well as target areas needed for further study. Each answer includes references to, Hazardous Materials Incidents, Third Edition, the 2008 Edition of NFPA standard 472, and insightful rationale. A final 200-question exam and test taking strategies are also included to help in preparation. A Complete Training Solution for Hazardous Materials Technicians and Incident Commanders! In 1982, the authors Mike Hildebrand and Greg Noll, along with Jimmy Yvorra, first introduced the concept of the Eight-Step Process© for managing hazardous materials

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incidents when their highly regarded manual, *Hazardous Materials: Managing the Incident* was published. Now in its Fourth Edition, this text is widely used by fire fighters, hazmat teams, bomb squads, industrial emergency response teams, and other emergency responders who may manage unplanned hazardous materials incidents. As a result of changing government regulations and consensus standards, as well as the need for terrorism response training, Mr. Noll and Mr. Hildebrand have modified and refined their process of managing hazmat incidents and added enhanced content, tips, case studies, and detailed charts and tables. The Fourth Edition contains comprehensive content covering:

- Hazard assessment and risk evaluation
- Identifying the problem and implementing the response plan
- Hazardous materials properties and effects
- Identifying and coordinating resources
- Decontamination procedures
- The Eight-Step Process®
- Personal protective equipment selection
- Procedures for terminating the incident

The Fourth Edition's dynamic features include:

- Knowledge and Skills Objectives correlated to the 2013 Edition of NFPA 472, Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents
- ProBoard Assessment Methodology Matrices for the Hazardous Materials Technician and Hazardous Materials Incident Commander levels
- Correlation matrix to the National Fire Academy's Fire and Emergency Services Higher Education (FESHE) Bachelor's (Non- Core) Managerial Issues in Hazardous Materials Course Objectives
- Realistic, detailed case

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studies • Practical, step-by-step skill drills • Important hazardous materials technician and safety tips

Brannigan's Building Construction for the Fire Service, Fourth Edition is a must read for fire fighters, prospective fire fighters, and fire science students. This edition continues the Brannigan tradition of using plain language to describe technical information about different building types and their unique hazards. This text ensures that critical fire fighting information is easy-to-understand and gives valuable experience to fire fighters before stepping onto the fireground. The first edition of Building Construction for the Fire Service was published in 1971. Frank Brannigan was compelled to write the most comprehensive building construction text for the fire service so that he could save fire fighters' lives. His passion for detail and extensive practical experience helped him to develop the most popular text on the market. His motto of: "Know your buildings," informs every aspect of this new edition of the text. Listen to a Podcast with Brannigan's Building Construction for the Fire Service, Fourth Edition co-author Glenn Corbett to learn more about this training program! Glenn discusses his relationship with the late Frank Brannigan, the dangers of heavy construction timber, occupancy specific hazards, and other areas of emphasis within the Fourth Edition. To listen now, visit: [http://d2jw81rkebrcvk.cloudfront.net/assets/multimedia/audio/Building\\_Construction.mp3](http://d2jw81rkebrcvk.cloudfront.net/assets/multimedia/audio/Building_Construction.mp3).

Hazardous Waste Operations and Emergency Response Manual & Desk Reference is a straightforward reference and training source designed to provide the site safety

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and health professional with a comprehensive guide to responding to emergencies involving releases or potential releases of hazardous substances. Important topics are discussed such as: Toxicology, Sampling and Analysis, Personal Protective Clothing, Chemical Incompatibility, Decontamination, Labels, Placards, and Other Identification, and Site Investigation, Control, and Emergency Response. Designed along the lines of 29CFR 1910.120 (Hazardous Waste Operations and Emergency Response regulation), this manual covers the training requirements of managers, supervisors, and professionals (engineers and scientists) involved in hazardous waste site operations and includes all topics covered in the OSHA-required 40-hour training course. The CD-ROM contains the book on PDF as well as the NIOSH Chemical Database for 2002. There are blank forms such as: site health and safety plans, checklist, worksheets, sample MSDS sheets, accident report forms, and site visit forms. The CD also includes sample questions, practice exams and practical field exercises. The Art of Reading Buildings focuses on the practical art of reading a building and applying its positive and negative attributes in developing a size-up for fireground operations that center on structure fires. First-due company officers, incident commanders, and safety officers will appreciate the practical “street-wise” lessons captured in the book. Chief officers, training officers, engineers, firefighters, and fire science degree candidates will benefit from the wide range of building construction topics covered in this text. Features include:

- Understand the technical and practical aspects of

