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Nota di contenuto	Cover -- Preface -- Introduction -- Brief Contents -- Contents -- Part 1: Historical Perspective and Overview -- Chapter 1: Safety and Health Movement, Then and Now -- Developments Before the Industrial Revolution -- Milestones in the Safety Movement -- Tragedies that have Changed the Safety Movement -- Hawk's Nest Tragedy -- Asbestos Menace -- Bhopal Tragedy -- Factory Fire in Bangladesh -- Role of Organized Labor -- Role of Specific Health Problems -- Development of Accident Prevention Programs -- Development of Safety Organizations -- Safety and Health Movement Today -- Integrated Approach to Safety and Health -- New Materials, New Processes, and New Problems -- Rapid Growth in the Profession -- Return on Investment in Safety and Health Management -- The Foster Wheeler Study -- Summary -- Key Terms and Concepts -- Review Questions -- Endnotes -- Chapter 2: Accidents and Their Effects -- Costs of Accidents -- Accidental Deaths in the United States -- Accidents versus Other Causes of Death -- Work Accident Costs and Rates -- Time Lost Because of Work Injuries -- Deaths in Work Accidents -- Work Injuries by Type of Accident -- Death Rates by Industry -- Parts of the Body Injured on the Job -- Chemical Burn Injuries -- Heat Burn Injuries -- Repetitive Strain/Soft Tissue Injuries -- Estimating the Cost of Accidents -- Cost-Estimation Method -- Other Cost-Estimation Methods -- Estimating Hidden Costs -- Global Impact

of Accidents and Injuries -- Summary -- Key Terms and Concepts -- Review Questions -- Endnotes -- Chapter 3: Theories of Accident Causation -- Domino Theory of Accident Causation -- Heinrich's Axioms of Industrial Safety -- Heinrich's Domino Theory -- Heinrich's Theory and Corrective Action -- Domino Theory in Practice -- Human Factors Theory of Accident Causation -- Overload -- Inappropriate Response and Incompatibility. Inappropriate Activities -- Human Factors Theory in Practice -- Accident/Incident Theory of Accident Causation -- Accident/Incident Theory in Practice -- Epidemiological Theory of Accident Causation -- Epidemiological Theory in Practice -- Limitations of Event-Chain Accident Causation Theories -- Systems Theory of Accident Causation -- Systems Theory in Practice -- Combination Theory of Accident Causation -- Combination Theory in Practice -- Behavioral Theory of Accident Causation -- Behavioral Theory in Action -- Drugs and Accident Causation -- Depression and Accident Causation -- Warning Signs -- Sources of Help -- Management Failures and Accident Causation -- Role of the Supervisor in Workplace Safety and Health -- Typical Management Failures That Cause Accidents -- Obesity and Accident Causation -- Summary -- Key Terms and Concepts -- Review Questions -- Endnotes -- Chapter 4: Roles and Professional Certifications for Safety and Health Professionals -- Modern Safety and Health Teams -- Safety and Health Manager -- Job of the Safety and Health Manager -- Role in the Company Hierarchy -- Problems Safety and Health Managers Face -- Education and Training for Safety and Health Managers -- Helpful Agencies and Organizations -- Engineers and Safety -- Design Process -- Safety Engineer -- Industrial Engineers and Safety -- Environmental Engineers and Safety -- Chemical Engineers and Safety -- Industrial Hygienist -- Health Physicist -- Occupational Physician -- Occupational Health Nurse -- Risk Manager -- Certification of Safety and Health Professionals -- Certified Safety Professional -- Certified Industrial Hygienist -- Certified Professional Ergonomist -- Certified Occupational Health Nurse -- Emerging Role of Safety Professionals -- Summary -- Key Terms and Concepts -- Review Questions -- Endnotes.

Chapter 5: Safety, Health, and Competition in the Global Marketplace -- Competitiveness Defined -- Productivity and Competitiveness -- Productivity: A Global View -- Quality and Competitiveness -- How Safety and Health Can Improve Competitiveness -- Productivity and Cost -- Quality -- Response Time -- Service -- Image -- Summary -- Key Terms and Concepts -- Review Questions -- Endnotes -- Part 2: Laws and Regulations -- Chapter 6: The OSH Act, Standards, and Liability -- Rationale for the OSH Act -- OSHA's Mission and Purpose -- OSH Act Coverage -- Coverage of Federal, State, and Local Government Personnel -- OSHA Standards -- How OSHA Standards Are Developed -- Input from and Help for Small Business in Standards Development and Compliance -- OSHA Standards versus OSHA Regulations -- How Standards are Adopted, Amended, or Revoked -- How to Read an OSHA Standard -- Temporary Emergency Standards -- How to Appeal a Standard -- Requesting a Variance -- Confined Space Standard -- Hazardous Waste Standard -- OSHA's Record Keeping and Reporting -- Reporting Requirements -- Record-Keeping Requirements -- Reporting and Record-Keeping Summary -- Incidence Rates -- Record-Keeping and Reporting Exceptions -- Keeping Employees Informed -- Workplace Inspections and Enforcement -- OSHA'S Whistleblower Program -- OSHA's Enhanced Enforcement Policy -- OSHA's Severe Violator Enforcement Program -- Follow-Up Inspections -- Programmed Inspections -- Public Awareness -- Settlements --

Section 11(b) Summary Enforcement Orders -- Citations and Penalties -- Appeals Process -- Employee Appeals -- Employer Appeals -- State-Level OSHA Programs -- Services Available from OSHA -- Consultation Services -- Safety and Health Achievement Recognition Program -- Cooperative Programs -- Alliance Program -- OSHA Strategic Partnership Program -- Challenge Program. Voluntary Protection Programs -- Susan Harwood Training Grants -- Training and Education Services -- Employer Rights and Responsibilities -- Employer Rights -- Employer Responsibilities -- Employee Rights and Responsibilities -- Employee Rights -- Employee Responsibilities -- Keeping Up-to-Date on OSHA -- Problems with OSHA -- Other Agencies and Organizations -- NIOSH -- OSHRC -- Mine Safety and Health Administration (MSHA) -- Federal Railroad Administration -- OSHA's General Industry Standards -- Subpart D: Walking-Working Surfaces -- Subpart E: Exit Routes and Emergency Planning -- Subpart F: Powered Platforms, Manlifts, and Vehicle-Mounted Work Platforms -- Subpart G: Occupational Health and Environmental Controls -- Subpart H: Hazardous Materials -- Subpart I: Personal Protective Equipment -- Subpart J: General Environment Controls -- Subpart K: Medical and First Aid -- Subpart L: Fire Protection -- Subpart M: Compressed Gas/Air -- Subpart N: Materials Handling and Storage -- Subpart O: Machinery and Machine Guarding -- Subpart P: Hand Tools/Portable Power Tools and Other Hand-Held Equipment -- Subpart Q: Welding, Cutting, and Brazing -- Subpart R: Special Industries -- Subpart S: Electrical -- Subpart T: Commercial Diving Operations -- Subpart Z: Toxic and Hazardous Substances -- OSHA's Maritime Standards -- Part 1915: Shipyard Employment -- Part 1917: Marine Terminals -- Part 1918: Longshoring -- Part 1919: Gear Certification -- OSHA's Construction Standards -- Standards and Codes -- Laws and Liability -- OSHA's Stand on Safety Incentives -- Summary -- Key Terms and Concepts -- Review Questions -- Endnotes -- Chapter 7: Workers' Compensation -- Overview of Workers' Compensation -- Objectives of Workers' Compensation -- Who is Covered by Workers' Compensation and Who is not -- Historical Perspective -- Workers' Compensation Legislation. Modern Workers' Compensation -- Workers' Compensation Insurance -- Resolution of Workers' Compensation Disputes -- Injuries and Workers' Compensation -- AOE and COE Injuries -- Who is an Employee? -- Disabilities and Workers' Compensation -- Temporary Disability -- Permanent Partial Disability -- Permanent Total Disability -- Monetary Benefits of Workers' Compensation -- Medical Treatment and Rehabilitation -- Medical Management of Workplace Injuries -- Administration and Case Management -- Cost Allocation -- Problems with Workers' Compensation -- Spotting Workers' Compensation Fraud and Abuse -- Future of Workers' Compensation -- Cost-Reduction Strategies -- General Strategies -- Specific Strategies -- Summary -- Key Terms and Concepts -- Review Questions -- Endnotes -- Chapter 8: Accident Investigation and Reporting -- Types of Accident Investigations -- When to Investigate -- What to Investigate -- Common Causes of Accidents -- Who Should Investigate -- Conducting the Investigation -- Isolate the Accident Scene -- Record All Evidence -- Photograph or Videotape the Scene -- Identify Witnesses -- Interview Witnesses -- Following Up an Accident Investigation -- Interviewing Witnesses -- When to Interview -- Where to Interview -- How to Interview -- Reporting Accidents -- Why Some Accidents Are Not Reported -- Discipline and Accident Reporting -- Ten Accident Investigation Mistakes to Avoid -- Summary -- Key Terms and Concepts -- Review Questions -- Endnotes -- Chapter 9: Product

Safety and Liability -- Product Liability and the Law -- Lawsuit Process -- History of Product Liability Law -- Strict Liability in Tort -- Statutory Product Liability Laws -- Applying Product Liability Laws -- Community Right-to-Know Act -- Developing a Product Safety Program -- Product Safety Coordinator -- Product Safety Committee -- Product Safety Auditor.  
Evaluating the Product Safety Program.

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Sommario/riassunto

For all Occupational Safety, Safety and Health Management, and related courses in any safety management, engineering, industrial/manufacturing technology, or other program, in universities, colleges, community colleges, and corporate training settings. This comprehensive, extensively updated text covers all aspects of occupational safety and health in today's global workplace. A major revision, Occupational Safety and Health for Technologists, Engineers, and Managers, 8e, presents new and revised regulations, emerging approaches and trends, updated statistics, and other new material of significant importance to students and practitioners in the field. Among the dozens of new topics covered: ROI for safety/health investments; Heinrich's theory; Worker's Compensation lawsuits; fall protection; hard hat ratings; PPE for cold work environments; indoor air quality investigations; fungal growth assessment; nanoscale materials; and noise reduction ratings. Clear, up-to-date, and logically sequenced, this text begins with historical perspective and overview, then covers laws and regulations; human elements; hazard assessment, prevention, and control; and key management issues. Each chapter contains case studies to promote classroom discussion; at least one safety fact or myth designed to engage students; and review questions to test mastery and promote critical thinking. Teaching and Learning Experience This book will help technologists, engineers, and managers quickly master today's best practices for occupational safety and health. It provides: The most comprehensive coverage available, fully reflecting the field's latest trends: Thoroughly prepares students for current and future realities in the field of occupational safety and health Supported with exceptional pedagogical features: Includes well-crafted chapter summaries, key terms and concepts, review questions, and many boxed features Combines theory and principles in realistic settings: Focuses on the new challenges of occupational safety and health in global wor.

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