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Autore	Brauer Roger L.
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Nota di contenuto	Title Page; Copyright; Preface to the Revised Edition; Part I: Introduction; Chapter 1: The Importance of Safety and Health; 1-1 Introduction; 1-2 Why Safety?; 1-3 The Records; 1-4 Impact of Changes; 1-5 Designing to Achieve Safety; Exercises; Review Questions; Notes; References; Chapter 2: Safety and Health Professions; 2-1 Introduction; 2-2 Safety Professionals and Practitioners; 2-3 Engineering; 2-4 Health Sciences; 2-5 Management Sciences; 2-6 Behavioral Sciences and Education; 2-7 The Legal Profession; 2-8 Other Professions; 2-9 Education for Safety Professionals 2-10 Licensing and Certification for Safety PractitionersExercises; Review Questions; Notes; References; Chapter 3: Fundamental Concepts and Terms; 3-1 Some Basic Terms; 3-2 Accidents and Incidents; 3-3 Consequences; 3-4 Costs; 3-5 Accident Causes: Unsafe Acts, Conditions and Circumstances; 3-6 Accident and Incident Theories; 3-7 Preventive Strategies; 3-8 How Safe Is Safe Enough?; Exercises; Review Questions; Notes; References; Part II: Legal Aspects of Safety; Chapter 4: Federal Laws, Regulations, Standards, and Agencies; 4-1 Introduction; 4-2 Federal Laws and Regulations

4-3 Federal Agencies; 4-4 Legislative Branch; 4-5 Judicial Branch; 4-6 Executive Branch; 4-7 Independent Agencies; 4-8 Other Departments, Agencies, and Safety Programs; Exercises; Review Questions; Notes; Reference; Chapter 5: Other Safety Laws and Regulations; 5-1 Introduction; 5-2 State Governments; 5-3 Private Companies; 5-4 Voluntary and Consensus Standards; 5-5 Private Laboratories; 5-6 Foreign and International Laws and Regulations; Exercises; Review Questions; Notes; References; Chapter 6: Workers' Compensation; 6-1 The Demand for Work Injury Compensation; 6-2 Workers' Compensation Laws; 6-3 Workers Covered; 6-4 Eligibility and Benefits; 6-5 Financing Workers' Compensation; 6-6 Administrative Procedures; 6-7 Third Party Lawsuits; 6-8 Workers' Compensation Organizations; 6-9 Workers' Compensation and Insurance Fraud; Exercises; Review Questions; Notes; References; Chapter 7: Products Liability; 7-1 Introduction; 7-2 Theories of Liability; 7-3 Products Liability Evidence; 7-4 Negligence; 7-5 Warranty; 7-6 Strict Liability; 7-7 Defects; 7-8 Misuse and Foreseeability; 7-9 Modifications and Substantial Change; 7-10 Statute of Limitations and Statute of Repose; 7-11 The Lawsuit Process; 7-12 Expert Witness; 7-13 Legal Strategies; 7-14 International Products Liability Laws; 7-15 Reducing Liability Risks; Exercises; Review Questions; Notes; References; Chapter 8: Record Keeping and Reporting; 8-1 Why Keep Records and File Reports?; 8-2 Kinds of Records and Reports; 8-3 The OSHA Method of Injury and Illness Record Keeping; 8-4 Other Record-Keeping Standards and Records; Exercises; Review Questions; Notes; References; Part III: Hazards and Their Control; Chapter 9: General Principles of Hazard Control; 9-1 Introduction; 9-2 Hazards and Hazard Control Defined

Sommario/riassunto

"Safety and Health for Engineers provides an overview of the primary knowledge safety and health professionals engineers and others needs to know to be effective. Each chapter provides a different segment of knowledge that helps safety professionals and engineers in their goal to protect workers and property. The encyclopedic coverage of Safety and Health for Engineers addresses the fundamentals of safety, legal aspects, hazard recognition and control, the human element and techniques for managing safety decisions. The book covers fundamental of safety practice that are primary topics included in certification examinations for practitioners. The primary goal for the third edition is to provide updates to the broad range of chapters found in the 2nd edition, and to expand on real-world applications. The updates incorporate changes in practices and elements surrounding practices. New and important topics covered include: Ethics, Sustainability, Cost of Safety, Health and Environmental Practice, International Practice, Occupational and Environmental Medicine, Occupational Nursing, Accident Causes and Circumstances, Consequence of Accidents, Preventive Strategies, Changes in Domestic Laws and Regulations, addition of Foreign and International Laws and Regulations, and nano-technology"--