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Nota di contenuto	Front Cover; Electrical Codes, Standards, Recommended Practices and Regulations; Copyright; Contents; Preface; Acknowledgments; CHAPTER 1 Who, What, Where, When, Why, and How?; Codes; Standards; Recommended Practices; Who, What, Where, When, and How; CHAPTER 2 American versus Global; Standards Harmonization; Standards Comparison; Conclusions; CHAPTER 3 The Authority Having Jurisdiction (AHJ); AHJ Adopted Codes and Standards; AHJ Process; Nationally Recognized Testing Laboratories (NRTL); Owner Authority Having Jurisdiction; Federal Authority Having Jurisdiction The Occupational Safety and Health Review Commission State Jurisdiction and State Plans; CHAPTER 4 Nationally Recognized Testing Laboratories (NRTLs); Listed NRTLs; Definitions; NRTL Standards Development; CHAPTER 5 Common Threads; Common Threads; NFPA 101, Life Safety Code - Common Threads; Adoption of NFPA 70, National Electrical Code; Low-Voltage Power Distribution and Service

Entrance Equipment; Surge Protection Devices (SPD); Disconnect Switches; Circuit Breakers Operating at 1000 Volts or Less; Ground Fault Protection Devices; Electrical Equipment Terms Review; Switchgear; Panelboards
TransformersMotor Control Center (MCC) - 600 Volts; Personal Protective Equipment; Busway; CHAPTER 6CFR 1910 versus CFR 1926; US Department of Labor; Hazardous Energy Control; Energy Control Program; Energy Control Procedures; Protective Materials and Hardware; Periodic Inspection; Training and Communication; Tagout System; Employee Retraining; Energy Isolation/Notification of Employees; Control Application; Release from Lockout/Tagout; Additional Requirements; Group Lockout or Tagout/Outside Personnel (Contractors, etc.); Electric Power Generation, Transmission, and Distribution
US Department of Energy (DOE)CHAPTER 7Developing Electrical Safe Work Practices; General; Safe Operating Procedures; Safe Work Practices; Installation, Operation, and Maintenance Considerations; CHAPTER 8Motors, Generators, and Controls; Motors and Generators General Types; Single-Phase Induction Motors; Equipment Specification Preparation; Motor and Generator Standards; Motor Control and Protection; Overload Relays; DC Manual and Magnetic Controllers; AC Combination Motor Controllers; Adjustable Speed Drives; Harmonic Mitigation
CHAPTER 9Electrical Hazardous (Classified) Area Design and Safe Work PracticesArea Classification Boundaries; Equipment Temperature; Hazardous Area Equipment; Definitions: Flammable and Combustible Gases and Vapors Equipment Protection Techniques; Definitions - Combustible Dust, Fibers, and Flyings Protection Techniques; Hazardous (Classified) Area Equipment Standards; North American Equipment Markings; Zone Equipment Markings; CHAPTER 10Wire, Cable, and Raceway; General; Definitions; Conductor Material; Insulation Material; Ampacity; Power and Control Cables; Communications Cable
Ethernet Cabling

Sommario/riassunto

Electrical codes, standards, recommended practices and regulations can be complex subjects, yet are essential in both electrical design and life safety issues. This book demystifies their usage. It is a handbook of codes, standards, recommended practices and regulations in the United States involving electrical safety and design. Many engineers and electrical safety professionals may not be aware of all of those documents and their applicability. This book identifies those documents by category, allowing the ready and easy access to the relevant requirements. Because these docume
