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**IEEE Std 142-1991**  
(Revision of IEEE Std 142-1982)

# **IEEE Recommended Practice for Grounding of Industrial and Commercial Power Systems**

**Sponsor  
Power Systems Engineering Committee  
of the  
IEEE Industry Applications Society**

**Approved June 27, 1991  
IEEE Standards Board**

**Approved December 9, 1991  
American National Standards Institute**

**Abstract:** The problems of system grounding, that is, connection to ground of neutral, of the corner of the delta, or of the midtap of one phase, are covered. The advantages and disadvantages of grounded versus ungrounded systems are discussed. Information is given on how to ground the system, where the system should be grounded, and how to select equipment for the grounding of the neutral circuits. Connecting the frames and enclosures of electric apparatus, such as motors, switchgear, transformers, buses, cables conduits, building frames, and portable equipment, to a ground system is addressed. The fundamentals of making the interconnection or ground-conductor system between electric equipment and the ground rods, water pipes, etc. are outlined. The problems of static electricity—how it is generated, what processes may produce it, how it is measured, and what should be done to prevent its generation or to drain the static charges to earth to prevent sparking—are treated. Methods of protecting structures against the effects of lightning are also covered. Obtaining a low-resistance connection to the earth, use of ground rods, connections to water pipes, etc. is discussed. A separate chapter on sensitive electronic equipment is included.

**Keywords:** System grounding, equipment grounding, static and lightning protection grounding, connection to earth, and sensitive electronic equipment grounding.

# Recommended Practice For Grounding Of Industrial And Commercial Power Systems

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## **Recommended Practice For Grounding Of Industrial And Commercial Power Systems:**

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**IEEE Recommended Practice for Grounding of Industrial and Commercial Power Systems ,1982 IEEE Recommended Practice for Grounding of Industrial and Commercial Power Systems ,1972 IEEE Recommended Practice for Grounding of Industrial and Commercial Power Systems ,1992** Industrial Power Systems Shoaib Khan, Sheeba Khan, Ghariani Ahmed, 2018-10-03 The modernization of industrial power systems has been stifled by industry's acceptance of extremely outdated practices. Industry is hesitant to depart from power system design practices influenced by the economic concerns and technology of the post World War II period. In order to break free of outdated techniques and ensure product quality and continuity of operations, engineers must apply novel techniques to plan, design, and implement electrical power systems. Based on the author's 40 years of experience in industry, *Industrial Power Systems* illustrates the importance of reliable power systems and provides engineers the tools to plan, design, and implement one. Using materials from IEEE courses developed for practicing engineers, the book covers relevant engineering features and modern design procedures including power system studies, grounding, instrument transformers, and medium voltage motors. The author provides a number of practical tables including IEEE and European standards and design principles for industrial applications. Long overdue, *Industrial Power Systems* provides power engineers with a blueprint for designing electrical systems that will provide continuously available electric power at the quality and quantity needed to maintain operations and standards of production. *IEEE Recommended Practice for Grounding of Industrial and Commercial Power Systems* IEEE Industry Applications Society. Industrial and Commercial Power Systems Committee, 1974 **Electrical Codes, Standards, Recommended Practices and Regulations** Robert J. Alonzo, 2009-12-21 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 documents may be updated on a regular basis, this book was written so that its information is not reliant on the latest edition or release of those codes, standards, recommended practices, or regulations. No single document on the market today attempts to not only list the majority of relevant electrical design and safety codes, standards, recommended practices, and regulations but also explain their use and updating cycles. This book, one stop information center for electrical engineers, electrical safety professionals, and designers, does. Covers the codes, standards, recommended practices, and regulations in the United States involving electrical safety and design, providing a

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*Industrial Power Engineering Handbook* KC Agrawal,2001-10-08 Never before has so much ground been covered in a single volume reference source This five part work is sure to be of great value to students technicians and practicing engineers as well as equipment designers and manufacturers and should become their one stop shop for all information needs in this subject area This book will be of interest to those working with Static Drives Static Controls of Electric Motors Speed Control of Electric Motors Soft Starting Fluid Coupling Wind Mills Generators Painting procedures Effluent treatment Electrostatic Painting Liquid Painting Instrument Transformers Core Balanced CTs CTs VTs Current Transformers Voltage Transformers Earthquake engineering Seismic testing Seismic effects Cabling Circuit Breakers Switching Surges Insulation Coordination Surge Protection Lightning Over voltages Ground Fault Protections Earthing Earth fault Protection Shunt Capacitors Reactive control Bus Systems Bus Duct Rising mains A 5 part guide to all aspects of electrical power engineering Uniquely comprehensive coverage of all subjects associated with power engineering A one stop reference resource for power drives their controls power transfer and distribution reactive controls protection including over voltage and surge protection maintenance and testing electrical engineering **Arc Flash Hazard Analysis and Mitigation** J. C. Das,2020-12-15 This new edition of the definitive arc flash reference guide fully updated to align with the IEEE s updated hazard calculations An arc flash an electrical breakdown of the resistance of air resulting in an electric arc can cause substantial damage fire injury or loss of life Professionals involved in the design operation or maintenance of electric power systems require thorough and up to date knowledge of arc flash safety and prevention methods Arc Flash Hazard Analysis and Mitigation is the most comprehensive reference guide available on all aspects of arc flash hazard calculations protective current technologies and worker safety in electrical environments Detailed chapters cover protective relaying unit protection systems arc resistant equipment arc flash analyses in DC systems and many more critical topics Now in its second edition this industry standard resource contains fully revised material throughout including a new chapter on calculation procedures conforming to the latest IEEE Guide 1584 Updated methodology and equations are complemented by new practical examples and case studies Expanded topics include risk assessment electrode configuration the impact of system grounding electrical safety in workplaces and short circuit currents Written by a leading authority with more than three decades experience conducting

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