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(Revision of IEEE Std 142-1962)

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.

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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, 1992 **IEEE Recommended Practice for Grounding of Industrial and Commercial Power Systems** IEEE Industry Applications Society. Industrial and Commercial Power Systems Committee, Institute of Electrical and Electronics Engineers, 1972 **IEEE Recommended Practice for Grounding of Industrial and Commercial Power Systems** IEEE Industry Applications Society. Industrial and Commercial Power Systems Committee, 1974 **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. Power System Technologies Committee, 1982 IEEE recommended practice for grounding of industrial and commercial power systems [IEEE green book], 2007 *IEEE Recommended Practice for Grounding of Industrial and Commercial Power Systems* Institute of Electrical and Electronics Engineers, IEEE Industry Applications Society. Industrial and Commercial Power Systems Committee, IEEE Industry Applications Society, Information is given on how to ground the system where the system should be grounded and how to select equipment for the ground of the neutral circuits **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

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