

# Standards for Power Systems Earthing

ELEK Software



## SUBSTATION EARTHING

- IEEE Std. 80-2013 – Guide for safety in AC substation grounding.
- AS/NZS 2067 – Substations and high voltage installations exceeding 1 kV a.c.
- BS EN 50622-2022 – Earthing of power installations exceeding 1 kV a.c.
- ENA DOC 045-2022 – Substation earthing guide (EG-1).

## TESTING OF EARTHING SYSTEMS

- IEEE Std. 89-2012 – Guide for measuring earth resistivity.
- ENA TS 45-29-2018 – Guidelines for design, installation, testing and maintenance of main earthing systems in substations.



## TOUCH/STEP VOLTAGE LIMITS

- IEC/TS 60479 – Effects of current on human beings and livestock.
- IEEE Std. 80-2013 – Guide for safety in AC substations.
- ENA DOC 045-2022 – Power system earthing guide (EG-1).



## RENEWABLE ENERGY SYSTEMS

- IEC 62205-3 – Protection against lightning and turbine overvoltage.
- IEEE Std. 2760-2020 – Wind Power Plant Grounding.
- IEEE Std. 2770-2020 – Solar Power Plant Grounding.



## METALLIC PIPELINES SAFETY

- AS/NZS 4853-2012 – Electrical hazards on metallic pipelines.
- CIGRE TB 95 – Influence of HV AC power systems on metallic pipelines.



## INDUSTRIAL & COMMERCIAL

- IEEE 3000 Standards Collection – Power system grounding of industrial and commercial installations.
- AS/NZS 3000-2018 – Electrical installations.
- BS 7671 – 18th Edition – The IET wiring regulations.
- BS 7430-2018 – Code of practice for protective earthing of electrical installations.



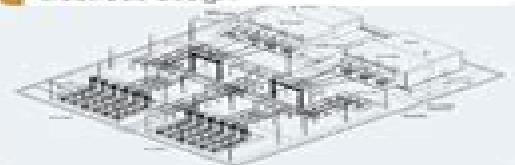
## OVERHEAD LINES



- AS/NZS 2000.2018 – Overhead line design.
- CIGRE TB 781 – Impact of soil parameter frequency dependence on the response of grounding electrodes.
- CIGRE TR 1029 – Procedures for Assessing the Lightning Performance of Transmission Lines.

## HIGH VOLTAGE DC SYSTEMS

- EPRI EL-2020 – HVDC ground electrode design.

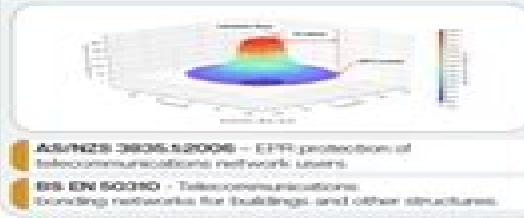


## DATA CENTRES EARTHING

- IEC 60364-6-548-1996 – Earthing arrangements and equipotential bonding for IT equipment.
- IEEE Std 1100-2005 – Grounding sensitive electronic equipment.



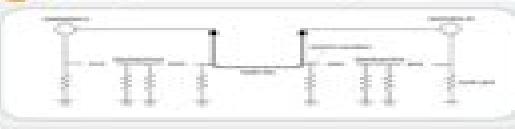
## TELECOMMUNICATIONS



- AS/NZS 3605.1:2006 – EPR-protection of telecommunications network users.
- BS EN 60000 – Telecommunications bonding networks for buildings and other structures.

## FAULT CURRENT DISTRIBUTION

- ENA EREC 934-2017 – Assessing the rise of earth potential in electrical installations.
- CIGRE TB 347 – Earth Potential Risers in Specially bonded Screen Systems.



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# Substation Earthing Design Guide

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## **Substation Earthing Design Guide:**

Grounds for Grounding Elya B. Joffe, Kai-Sang Lock, 2023-02-01 GROUNDS FOR GROUNDING Gain a comprehensive understanding of all aspects of grounding theory and application in this new expanded edition. Grounding design and installation are crucial to ensure the safety and performance of any electrical or electronic system irrespective of size. Successful grounding design requires a thorough familiarity with theory combined with practical experience with real world systems. Rarely taught in schools due to its complexity identifying and implementing the appropriate solution to grounding problems is nevertheless a vital skill in the industrial world for any electrical engineer. In *Grounds for Grounding* readers will discover a complete and thorough approach to the topic that blends theory and practice to demonstrate that a few rules apply to many applications. The book provides basic concepts of Electromagnetic Compatibility (EMC) that act as the foundation for understanding grounding theory and its applications. Each avenue of grounding is covered in its own chapter topics from safety aspects in facilities lightning and NEMP to printed circuit board cable shields and enclosure grounding and more. *Grounds for Grounding* readers will also find Revised and updated information presented in every chapter. New chapters on grounding for generators, uninterruptible power sources (UPSs) and appendices including a grounding design checklist, grounding documentation content and grounding verification procedures. *Grounds for Grounding* is a useful reference for engineers in circuit design, equipment and systems as well as power engineers, platform and facility designers.

*Transmission and Distribution Electrical Engineering* Colin Bayliss, Brian Hardy, 1999-04-12 This comprehensive treatment of the theory and practice encountered in the installation and design of transmission and distribution systems for electrical power has been updated and revised to provide the project engineer with all the latest relevant information to design and specify the correct system for a particular application. Thoroughly updated and revised to include latest developments. Learn from an Author with extensive experience in managing international projects. Find out the reasoning and implications behind the different specifications and methods.

**Critical Urban Infrastructure Handbook** Masanori Hamada, 2014-12-18 A reference for engineers and facilities professionals involved in the planning, operations, management and maintenance of all urban utilities this handbook addresses water supply and sewerage, power, gas, telecommunications, joint utility corridor, utilidor, lifeline facilities and other critical civil infrastructure lifelines. It covers the design and construction of facilities, maintenance, disaster management, environmental protection and disaster and emergency recovery measures. It also discusses urban planning, life cycle cost, GIS analysis of lifeline systems, computerized integrated management systems and the use of new materials and technologies.

**Advances in High Voltage Engineering** A. Haddad, D.F. Warne, 2004 This book addresses the very latest research and development issues in high voltage technology specifically covering developments throughout the past decade. It is intended as a reference source for researchers and students in the field but the unique blend of expert authors and comprehensive subject coverage means that this book is also

ideally suited as a reference source for engineers and academics in the field for years to come McGraw-Hill's Guide to UK Wiring Standards for Earthing & Bonding David Stockin, 2016-10-18 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product A complete guide to the earthing and bonding requirements of the latest United Kingdom wiring regulations This on the job reference offers complete coverage of all technical aspects of electrical earthing and bonding The book provides you with the commentary and guidance you need to interpret and apply the earthing and bonding requirements of the 17th Edition of the IET Wiring Regulations BS 7671 2008 incorporating Amendment No 3 2015 the electrical code used throughout the United Kingdom McGraw Hill's Guide to UK Wiring Standards for Earthing Bonding features in depth discussions of each of the code's standards section by section along with high quality illustrations and detailed examples The handbook also includes answers to frequently asked questions Coverage Includes Below Grade Earthing Scope and Principles Definitions General Characteristics Protection for Safety Selection and Erection of Equipment Inspection and Testing Electrode Calculations Economic and Legal Analysis Managing an Earthing Project If you are looking for clear expertly written coverage of electrical earthing as it relates to the latest IET codes McGraw Hill's Guide to UK Wiring Standards for Earthing Bonding belongs on your desk *Hands on Boiler and Auxs Operation and Maintenance* Kameshwar Upadhyay, 2017-07-03 Various developments have taken place in the field of water treatment and boiler metallurgy in the past few decades The basic requirements of boiler operation and maintenance are optimal capacity efficiency safety and high reliability in mechanical electrical and instrumentation aspects *Hands on Boiler and Auxs Operation Maintenance* deals with imparting basic knowledge about different type of boilers and auxiliary equipment their design erection trouble diagnosis and remedial action The metallurgical requirements to attain high thermal efficiency in plants are elucidated Maintenance philosophy with regard to pressure parts combustion systems different auxiliary equipment boiler metal loss deposits or loss of efficiency operating and maintenance problems are elaborated extensively This workbook will serve as a practically helpful reference to power plant engineers at all stages of their tasks *Water and Energy International*, 2017 Standard Handbook for Electrical Engineers, Seventeenth Edition Surya Santoso, H. Wayne Beaty, 2017-11-24 Up to date coverage of every facet of electric power in a single volume This fully revised industry standard resource offers practical details on every aspect of electric power engineering The book contains in depth discussions from more than 100 internationally recognized experts Generation transmission distribution operation system protection and switchgear are thoroughly explained Standard Handbook for Electrical Engineers Seventeenth Edition features brand new sections on measurement and instrumentation interconnected power grids smart grids and microgrids wind power solar and photovoltaic power generation electric machines and transformers power system analysis operations stability and protection and the electricity market Coverage includes Units symbols constants definitions and conversion factors Measurement and instrumentation Properties of

materials Interconnected power grids AC and DC power transmission Power distribution Smart grids and microgrids Wind power generation Solar power generation and energy storage Substations and switch gear Power transformers generators motors and drives Power electronics Power system analysis operations stability and protection Electricity markets Power quality and reliability Lightning and overvoltage protection Computer applications in the electric power industry Standards in electrotechnology telecommunications and IT    **IEEE Standards** Institute of Electrical and Electronics Engineers,1997

Irrigation and Power ,1977    **Electric Distribution Systems Engineering Handbook** ,1994    **12th International Conference on Electricity Distribution [17-21 May 1993, International Convention Centre (ICC), Birmingham, UK]** ,1993    **Standards India** ,1987    *Science Abstracts* ,1995    Proceedings of the ... Annual Appalachian Underground Corrosion Short Course ,1990    **ASCE Manuals and Reports on Engineering Practice** ,1999

**Standard Handbook for Electrical Engineers Sixteenth Edition** H. Wayne Beaty,Donald Fink,2012-08-30 THE MOST COMPLETE AND CURRENT GUIDE TO ELECTRICAL ENGINEERING For more than a century the Standard Handbook for Electrical Engineers has served as the definitive source for all the pertinent electrical engineering data essential to both engineering students and practicing engineers It offers comprehensive information on the generation transmission distribution control operation and application of electric power Completely revised throughout to address the latest codes and standards the 16th Edition of this renowned reference offers new coverage of green technologies such as smart grids smart meters renewable energy and cogeneration plants Modern computer applications and methods for securing computer network infrastructures that control power grids are also discussed Featuring hundreds of detailed illustrations and contributions from more than 75 global experts this state of the art volume is an essential tool for every electrical engineer Standard Handbook for Electrical Engineers 16th Edition covers Units symbols constants definitions and conversion factors Electric and magnetic circuits Measurements and instruments Properties of materials Generation Prime movers Alternating current generators Direct current generators Hydroelectric power generation Power system components Alternate sources of power Electric power system economics Project economics Transmission systems High voltage direct current power transmission Power system operations Substations Power distribution Wiring design for commercial and industrial buildings Motors and drives Industrial and commercial applications of electric power Power electronics Power quality and reliability Grounding systems Computer applications in the electric power industry Illumination Lightning and overvoltage protection Standards in electrotechnology telecommunications and information technology    *The Electrical Review* ,1928    **Standard Handbook for Electrical Engineers** Donald Fink,H. Wayne Beaty,2006-09-15 The Standard Handbook for Electrical Engineers has served the EE field for nearly a century Originally published in 1907 through 14 previous editions it has been a required resource for students and professionals This new 15th edition features new material focusing on power generation and power systems operation two longstanding strengths of the handbook that have recently

become front burner technology issues At the same time the entire format of the handbook will be streamlined removing archaic sections and providing a quick easy look up experience     **Substation Earthing Guide ,2006**

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