



McGraw-Hill's NEC 2014 Grounding and Earthing Handbook

By David Stockin



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The most complete guide to the grounding and earthing requirements of the 2014 National Electrical Code

“If you are responsible for delivering power, or if you just want to know what’s going on beneath your feet, read these pages; ground your circuit as Stockin suggests, and you can close the master switch with confidence.” —Bill Nye, “The Science Guy”

“David Stockin’s book develops a clear understanding of Code requirements through extensive use of illustrations and clear text.” —David Brender, P.E., Code-Making Panel NO. 5 member

“Stockin adds his own experiences to the fundamentals of NEC 250, allowing readers to visualize practical applications of routine rules in a new and novel way.” —Travis Lindsey

McGraw-Hill’s National Electrical Code 2014 Grounding and Earthing Handbook fully addresses the above-grade grounding and below-grade earthing issues related to Article 250 of the 2014 National Electrical Code. This practical guide features in-depth discussions of each of the Code’s requirements, section by section, along with clear explanations and real-world examples.

For ease of reference, a separate chapter calls out all of the changes introduced to Article 250 of the 2014 NEC. Information on the Canadian Electrical Code is also provided. A helpful question-and-answer chapter covers common on-the-job topics, and more than 100 detailed diagrams illustrate the information presented in this authoritative resource.

Coverage includes:

- Summary of grounding and earthing requirements in the 2014 NEC
- Zone of influence
- Grounding electrodes
- System design and planning
- Soil resistivity testing
- Testing of existing grounding systems

- Ground potential rise
- Step and touch voltage hazards
- Effects of lightning on grounding systems
- Standards for lightning protection systems
- Economic considerations
- System grounding
- Grounding electrode system and grounding electrode conductor
- Enclosure, raceway, and service cable connections
- Bonding
- Equipment grounding and equipment-grounding conductors
- Methods of equipment grounding
- Direct-current systems
- Instruments, meters, and relays
- Grounding of systems and circuits of over 1000 volts
- Swimming pools, fountains, and similar installations

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Editorial Review

About the Author

David Stockin is Manager of Engineering, E&S Grounding Solutions. A full-time grounding engineer for over 10 years, he has been the lead electrical grounding/earthing engineer for all of the massive Google Data Centers located from American to Asia and Europe. Stockin was the lead grounding engineer for both the U.S. Navy's Data Center upgrades and the U.S. Coast Guard's Alaska Radio Towers upgrades. He has authored numerous publications on electrical grounding and earthing.

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