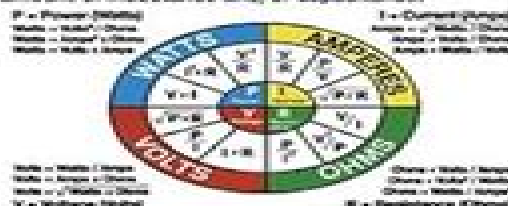


### NEUTRAL & GROUNDED CONDUCTORS (NEC Article 90; Article 200; Article 300)

#### OHM'S LAW & POWER FORMULAS

Ohm's law and the power formula are limited to circuits in which electrical resistance is the only significant opposition to current flow, including all DC circuits and AC circuits that do not contain a significant amount of inductance and/or capacitance.



#### OHM'S LAW DIAGRAM & FORMULAS

**Voltage** = Current x Resistance

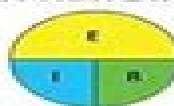
$$E = I \times R$$

**Current** = Voltage ÷ Resistance

$$I = E \div R$$

**Resistance** = Voltage ÷ Current

$$R = E \div I$$



#### OHM'S LAW & IMPEDANCE

**Voltage** = Current x Impedance

$$E = I \times Z$$

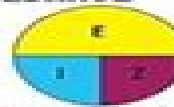
**Current** = Voltage ÷ Impedance

$$I = E \div Z$$

**Impedance** = Voltage ÷ Current

$$Z = E \div I$$

**E** = Voltage (in volts) **I** = Current (in amperes)  
**Z** = Impedance (in ohms)



#### POWER DIAGRAM & FORMULAS

**Power** = Current x Voltage

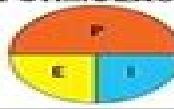
$$P = I \times E$$

**Voltage** = Power ÷ Current

$$E = P \div I$$

**Current** = Power ÷ Voltage

$$I = P \div E$$



#### NUMBER OF CONDUCTORS — BOX FILL CALCULATIONS (Based on 314.16)

- Boxes and conduit bodies must be of an approved size to provide free space for all enclosed conductors.
- In no case must the volume of the box, as calculated in 314.16(A), be less than the fill calculation.
- Each conductor that originates outside the box and terminates or is spliced within the box must be counted once.
- Each conductor that passes through the box without splice or termination must be counted as one.
- Each loop or coil of unbroken conductor not less than twice the minimum length required for free conductors in 300.34 must be counted as twice.

#### NEUTRAL CONDUCTORS (Based on 200.4(A)(3))

Neutral conductors must be installed in accordance to:

- Neutral conductors must not be used for more than one branch circuit, for more than one multiwire branch circuit, or for more than one set of ungrounded feeder conductors.
- Where more than one neutral conductor associated with different circuits is in an enclosure, grounded circuit conductors of each circuit must be identified or grouped to correspond with the ungrounded circuit conductor(s) by wire markers, cable ties or similar means in at least one location within the enclosure.

#### GROUNDED CONDUCTOR IDENTIFICATION (Based on 200.6(A)(2))

Grounded Conductors Size 6 AWG or Smaller must be identified by their insulation through one of the following means:

- A continuous white outer finish
- A continuous gray outer finish
- 3 continuous white or gray stripes along its whole length on other than green insulation
- Insulated conductors with their outer covering showing a white or gray color but with colored tracer threads in the braid to identify the source are acceptable for identification
- The grounded conductor of a mineral insulated, metal-sheathed cable (Type MI) must be identified at the time of installation by distinctive marking at its terminations
- A single-conductor, sunlight-resistant, outdoor rated cable used as a grounded conductor in photovoltaic power systems, identified as indicated above at all terminations
- Fixture wire must comply with the requirements for grounded conductor identification as specified in 402.8
- For aerial cable, the identification must be as above, or by means of a ridge located on the exterior of the cable so as to identify it.

Grounded Conductors Size 4 AWG or Larger must be identified in one of the following ways:

- A continuous white outer finish
- A continuous gray outer finish
- 3 continuous white or gray stripes along the entire length of the conductor on any but green insulation
- At installation, by a distinctive white or gray marking at its terminations. Marking must encircle the conductor or insulation.



Continuous White or Gray Finish



Three White or Gray Stripes on Anything but Green



Outer Coloring White or Gray With Colored Threads in Braid

200 AMP Service Entrance - From Utility Pole to Energy Meter

150 AMP Service Entrance & Feeder Wire - to Panel Box

100 AMP Service Entrance & Feeder Wire - to Panel Box

55 AMP Feeder & Large Appliance Wire

40 AMP Feeder & Large Appliance Wire

30 AMP Appliances such as Dryer, Air Conditioning, Water Heater

20 AMP Appliances such as Laundry, Bathroom & Kitchen Circuits

15 AMP General Lighting, Fans & Outlet / Receptacle Circuits

#### VOLUME ALLOWANCE REQUIRED PER CONDUCTOR (Based on NEC Table 314.16(B)(1))

SIZE OF CONDUCTOR (AWG)	FREE SPACE WITHIN BOX FOR EACH CONDUCTOR	
	cm <sup>3</sup>	in. <sup>3</sup>
18	24.6	1.50
16	28.7	1.75
14	32.8	2.00
12	36.9	2.25
10	41.0	2.50
8	49.2	3.00
6	81.9	5.00

#### TERMINAL IDENTIFICATION (Based on 200.10(B))

Receptacles, polarized attachment plugs, and cord connectors for plugs and polarized plugs must have the terminal intended for connection to the grounded conductor identified as:

- Identification must be by a metal or metal coating that is substantially white or silver in color or by the word white or the letter W located adjacent to the identified terminal.
- If the terminal is not visible, the conductor entrance hole for the connection shall be colored white or marked with the word white or the letter W.

#### SINGLE-PHASE DWELLING SERVICES & FEEDERS (Based on 210.10)

- For a service rated 100 through 400 amperes, the service conductors supplying the entire load associated with a one-family dwelling, or the service conductors supplying the entire load associated with an individual dwelling unit in a two-family or multifamily dwelling, must be permitted to have an ampacity not less than 83% of the service rating. **Note:** This also applies to feeders.
- In no case must a feeder for an individual-dwelling unit be required to have an ampacity greater than that specified above.
- Grounded conductors must be permitted to be sized smaller than the ungrounded conductors, if the requirements of 220.61 and 220.42 for service conductors or the requirements of 215.2 and 220.61 for feeder conductors are met.

#### GROUNDED CONDUCTORS OF DIFFERENT SYSTEMS — IDENTIFICATION (Based on 200.6(D))

- Where grounded conductors of different nominal voltage systems are installed in the same raceway, cable, box or auxiliary gutter or other type of enclosure, each grounded conductor must be identified by nominal voltage system.
- Identification that distinguishes each system grounded conductor must be permitted by one of the following means:
  - One nominal voltage system grounded conductor must have an outer covering conforming to 200.6 (A) or (B).
  - The grounded conductor of other systems must have different outer coverings conforming to 200.6 (A) or 200.6 (B) or by an outer covering of white or gray with a readily distinguishable colored stripe other than green running along the insulation.

#### ALTERNATING-CURRENT SYSTEMS (Based on NEC 250.26)

TYPE OF SYSTEM	CONDUCTOR TO BE GROUNDED
Single Phase, 2 Wire	one conductor
Single Phase, 3 Wire	the neutral conductor
Multiphase systems having a common wire to all phases	the neutral conductor
Multiphase system where one phase is grounded	that phase conductor
Multiphase systems in which one phase is used as a single phase, 3-wire	the neutral conductor

# National Electrical Code Reference

**H. Brooke Stauffer**



## **National Electrical Code Reference:**

*National Electrical Code Reference Book* J. D. Garland, 1977      **National Electrical Code Reference Book** J. D. Garland, 1979      **National Electrical Code Handbook** Brian McPartland, Joseph McPartland, 2005-05-17 The Best Code Reference in Print Edition after popular edition McGraw Hill's National Electrical Code R Handbook has delivered unmatched put the Code R into practice guidance No wonder it's been the leading reference on the NEC R for more than 70 years Completely updated to reflect the 2005 National Electrical Code R this is the most frequently consulted NEC R guidebook in the world an indispensable authoritative source of Code R how to's interpretation and advice Step by step advice on all troublesome and controversial sections of the Code R Helps electrical workers pass inspection the very first time Extra thorough explanations without word for word reproduction of the Code R A lavish offering of task simplifying photography and drawings to make every procedure crystal clear Best value because every page of every section provides 100% applicable Code R interpretation and advice      *User's Guide to the National Electrical Code® 2005* H. Brooke Stauffer, 2005 Build a firm foundation in NEC basics with the 2005 Edition of User's Guide to the National Electrical Code NFPA's full color illustrated guide walks you through the 2005 Code explaining key principles such as the difference between GFPE and GFCI equipment With this text you'll understand the intent behind the most critical NEC requirements the way NEC chapters and articles work together and how the NEC is related to other electrical standards and building codes The User's Guide is the key to getting the right answers faster and more efficiently Written by H Brooke Stauffer of the National Electrical Contractors Association NECA this primer shows you how to find answers in today's NEC R significantly improving your productivity and effectiveness on the job User's Guide to the National Electrical Code R is the ideal starting point for electrical apprentices and a useful reference for experienced professionals Use it alongside your 2005 Code      **2017 National Electrical Code (NEC) Significant Changes Quick-Card**, 2017-12-14 In this unique quick reference guide a single 6 page laminated card you get all the Significant Changes to the National Electrical Code NEC that you need to know based on the current 2017 NEC Special sections Code Wide Changes and Labeling Marking GFCI Branch Circuits Grounding Bonding Receptacles Health Care Facilities Solar Photovoltaics PV Emergency Systems      National Electrical Code 2005 National Fire Protection Association Staff, Thomson Learning, (National Fire Protection Association) National Fire Protection Association, NFPA (National Fire Prevention Association), Delmar Publishers, 2004-11 The 1 electrical reference the 2005 National Electrical Code is available through today's 1 electrical publisher Thomson Delmar Learning The single most important reference in the electrical industry the National Electrical Code NEC is updated every three years and outlines minimum standards for all types of electrical installations The 2005 NEC available in softcover or looseleaf version is loaded with solutions designed to provide better safeguards add greater usability and bring provisions in line with technology trends A must for anyone involved in electrical design installation or inspection the 2005 NEC provides 100% of the information

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**National Electrical Code Reference Book** J. D. Garland, 1984 **User's Guide to the National Electrical Code®** Stauffer H. Brooke, 2005-01-15 Improve your understanding of core NEC R principles and organization pass exams based on the 2005 NEC rules and chart a course for self study with this NFPA Study Guide developed to accompany the User's Guide to the National Electrical Code text Organized in units that correspond directly to chapters in the 2005 NEC R as well as units in the User's Guide the Study Guide provides concrete objectives electrical students will meet by completing each unit Also included are answers to assignments test questions and solutions **2014 NEC Quick-Card Based on the 2014 National Electrical Code (NEC)**, 2014-06-06 QUICK CARD National Electrical Code NEC Based on the 2014 NEC by Builder's Book Inc In this unique quick reference guide a single 6 page laminated card you get all the National Electrical Code NEC essentials you need to know based on the current 2014 NEC Special sections NEC Neutral Grounded Conductors Branch Circuits Feeders Service Conductors Protection against Physical Damage Working Space Clearances Grounding Bonding Overhead Installations Underground Installations Conductors General Wiring Dwelling Unit Receptacle Outlets Locations National Electrical Code National Fire Protection Association, American National Standards Institute, 2002 The No 1 electrical reference this book is the single most important reference in the electrical industry outlining minimum standards for all types of electrical installations It includes information on wiring methods and materials wiring and protection and equipment for general use Tables *DEWALT Electrical Code Reference: Based on the 2017 NEC* Daniel Sandefur, 2017-05-24 Translate the complex requirements of the 2017 National Electrical Code into simple practical guidelines for residential electrical installation with this thorough user friendly resource Ideal for homeowners and experienced electricians alike DEWALT ELECTRICAL CODE REFERENCE BASED ON THE NEC 2017 Fourth Edition examines all aspects of residential wiring from initial rough in to final trim out The author explores each room of the house in detail covering receptacle placement smoke detector installation stairwells and crawl spaces as well as key topics such as grounding and bonding requirements HVAC circuits GFCI and AFCI requirements and voltage drop calculations To help readers master even complex concepts readily the text includes worksheets to simplify advanced load calculations straightforward diagrams for wiring devices and code references highlighting critical NEC 2017 requirements This highly practical up to date reference is a must have resource for anyone undertaking residential electrical work today Important Notice Media content referenced within the product description or the product text may not be available in the ebook version

**Illustrated Guide to the 1999 National Electrical Code** John E. Traister, 1999 This fully illustrated guide offers a

quick and easy visual reference for installing electrical systems Whether you re installing a new system or repairing an old one you ll appreciate the simple explanations written by a code expert and the detailed intricately drawn and labeled diagrams A real time saver when it comes to deciphering the current NEC      *2017 National Electrical Code (NEC) Loose-Leaf BBI Fast-Tabs* ,2016-09-30 User friendly and up to date these National Electrical Code Tabs are a great way to organize the NEC 2017 These 48 durable full page tabs to be inserted before the articles you reference most so you reduce the time you spend flipping through pages It s a great way to customize your 2017 Loose leaf and apply the most advanced installation requirements for electric conductors and other equipment The electrical industry s bible is the most current complete safety criteria for all electrical installations Anyone involved with the electrical industry needs to keep up to date with the new 2017 National Electrical Code      *A National Electrical Code Study Reference Based on the 2011 Nec* Alvin J. Walker,2011-04-01 For those individuals desiring to learn or enhance their understanding of the 2011 National Electrical Code this improved and updated reference will serve as an excellent tool As a whole the contents consist of an introduction to the code providing pertinent yet concise information pertaining to the background of the NEC its structure and how it is used along with over 1400 practical multiple choice and true false questions covering all 147 articles and chapter 9 including selected informative annexes As a special bonus the answer to each question is provided with its code reference So if you re looking to gain practical insight further your working knowledge of the NEC or prepare for an electrical licensing examination this is without a doubt one of the best references you ll ever use Because this book was written to consider all potential users regardless of electrical background it can be used in any classroom setting or training environment

*National Electrical Code 2011* ,2012-11-02      *Interpreting the National Electrical Code* Truman C. Surbrook,1990 This guide explains the articles of the National Electrical Code and offers practical examples to illustrate how the code is applied Discussion is organized by subject integrating material on how the code is interpreted in specific field situations with information that is not directly addressed in the code such as work in metric units voltage drop transformer K ratings and photovoltaic systems The guide is useful as a how to book and a professional reference for apprentices electricians and electrical inspectors This sixth edition contains beginning and advanced multiple choice problem sets The authors are affiliated with Michigan State University c Book News Inc      **McGraw-Hill's National Electrical Code (NEC) 2017 Handbook, 29th Edition** Frederic P. Hartwell,Joseph F. McPartland,2017-04-17 The Definitive Guide to the 2017 National Electrical Code Completely revised to fully align with the 2017 NEC McGraw Hill s National Electrical Code NEC 2017 Handbook 29th Edition presents the trusted advice and analysis you need to accurately interpret the latest set of rules In depth coverage of the background and rationale for specific rules enhances understanding of the meaning and application of those rules This practical resource also illustrates key points through discussions with owners and inspectors Designed to be used as a companion guide to the 2017 NEC itself this on the job reference is arranged in code order so the explanation for

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