

NATIONAL TICO (00) DI= OUICK-CARDS®

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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

医一丁二氏 Current - Voltage - Resistance T = E + B





OHM'S LAW & IMPEDANCE

Voltage - Current x Impedance 8-1-2 Current - Voltage - Impedance

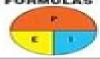
1 - 6 + 2Impedance - Voltage + Current **第一里中**王

E - Voltage (in volts) I - Current (in amps) Z = Impediance (in OHMs):

POWER DIAGRAM & FORMULAS Power - Current x Voltage

PHINE Voltage - Power + Current 夏四岁中日

Compat - Power + Wiltage 1-2-6



NUMBER OF CONDUCTORS --BOX FILL CALCULATIONS (Sheet 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 354 IG(A) be less than the fill calculation.
- Each conductor that originates outside the box and berminates or is spliced within the box must be mounded ence.
- · Each conductor that passes through the box without solice or termination must be counted as once.
- Each lone or cell of unbroken conductor not less than twice the minimum length sequired for free conductors. in 300.14 must be counted as twice.

NEUTRAL CONDUCTORS (Based on 200.454)(12)

Neutral conductors must be installed in accordance to: . Newtral conductors must not be used for exice than one branch circuit, for more than one multiwire branch circuit, or for more than one set of unprounded 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. conductorist) by wire markers, cable ties or similar means in at least one location within the enclosure.

GROUNDED CONDUCTOR IDENTIFICATION (Second on 200.604-81)

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 groon insulation.
- Insulated conductors with their outer covering. showing a white or gray color but with oplored 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 Serminations.
- · Fixture wire must comply with the requirements. for prounded conductor identification as specified
- For agrial 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 of insulation.



	Theads in Braid
200 AMPS	Service Entrance - From Utility Pole to Energy Meter
150 AMPS	Service Entrance & Feeder Wire - to Panel Bas
100 AMPS	Service Entrance 5 Feeder Wire - to Panel Box
SS AMPS	Feeder & Large Appliance Wire
40 AMPS	Feedor & Large Appliance Wire

MANAGEMENT OF	— 30 AMPS	Appliances such as Dryer, Air Conditioning, Water Heater
NAME OF TAXABLE PARTY.	— 20 AMPS	Appliances such as Laundry, Bathysom & Kitchen Drouits
AC MINISTRAL	- 15 AMPS	General Lighting, Fans & Outlet / Recepticle Circuits

VOLUME ALLOWANCE REQUIRED PER CONDUCTOR (Based on MEC Inble 254.86(8)(1))

SIZE OF CONDUCTOR (AMPS)	PREE SPACE WITHIN BOX FOR EACH CONDUCTOR.	
	cm ²	in. *
18	24.6	1.50
16	28.7	1.75
3.4	32.8	2.00
15	36.9	2.25
10	41.0	2.50
8	49.2	3.00
6	81.9	5.00

TERMINAL IDENTIFICATION (Based on 200, Lord);

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 onlor 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 to 310.02)

- 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 63% of the service rating. Moter: This also applies to fooders.
- In no case must a feeder for an individual deedling unit berequired to have an ampacity greater than that specified
- Grounded conductors must be permitted to be sized smaller than the ungrounded conductors, if the requirement of 220.61 and 230.42 for service conductors or the requirements of 215.2 and 220.61 for feeder conductors are met.

GROUNDED CONDUCTORS OF DIFFERENT SYSTEMS — IDENTIFICATION (ILLUST OF 2001.6(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 arounded 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 (it) or by an outer covering of white or gray with a readily distinguishable colored stripe other than green running plants the insulation.

ALTERNATING-CURRENT SYSTEMS

TYPE OF SYSTEM	CONDUCTOR TO BE GROUNDED	
Single Phase, 2-Wire	ene 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	

H. Brooke Stauffer

Audel Guide to the 2005 National Electrical Code Paul Rosenberg, 2005-02-17 Here's what you need to know Understanding and following the voluminous National Electrical Code is a constant challenge You need a reference that doesn't waste your time. This guide extracts the information necessary for you the installer then arranges it for easy access and highlights the changes so you can quickly spot what s new Whether you re a novice or a veteran you ll want this book with you on every job Understand the terms and rules for installation set forth in the NEC Identify what s new in the 2005 version Review each section of the NEC that applies to electrical installation Find summary information on the new model ordinances Learn about the significant changes in bonding and grounding requirements Explore the expanded section covering communications equipment Comprehend the new definitions and be able to use them in interpreting Code requirements 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 *Electrician's Exam Preparation* Guide John E. Traister, 2005 A guestion and answer study guide for students and apprentices preparing to take the journeyman's or master's electrician's exam based on the 2005 National Electrical Code **Engineer's Guide to the** National Electrical Code H. Brooke Stauffer, 2008 This informative introduction to the NEC provides electrical engineers both professionals and students with invaluable insight to customary building codes Written by the Executive Director of Standards and Safety of the NECA H Brooke Stauffer offers a comprehensive description of the NEC and commonly encountered building codes when designing a building s electrical subsystems The Engineer s Guide to the National Electrical Code steers beginning electrical engineers through the complex regulations of the NEC in a clear and accessible Residential Wiring to the 2005 NEC Jeff Markell, 2005 This book explains what every electrician needs to know about way electricity how to select the right materials how to follow floor plans types and spacing of outlets and permissible loading on general purpose circuits Residential Wiring to the 2005 NEC is the complete guide for your electrical contractor customers for installing residential wiring to the 2005 NEW from the tools and gauges needed through switch circuits service entrances additions and alterations troubleshooting and repairs **Electrical Systems Based on the 2011 NEC National**

Electrical Code Michael I. Callanan, Bill Wusinich, 2011 Electrical Systems is designed for use by journeyman and master electricians inspectors contractors and others in the electrical trade This authoritative textbook is recognized in the industry for providing a comprehensive overview of the National Electrical Code Concise text and descriptive illustrations cover the Code and its application to wiring methods and materials conductors and overcurrent protection devices branch circuits and feeders grounding transformers services special locations calculations and more Important changes in the 2011 NEC are covered throughout Trade knowledge gained in the field is conveyed in concise text and full color illustrations for guick User's Guide to the National Electrical Code? 2008 Edition Brooke Stauffer, 2009-10-07 Give your understanding students a firm foundation in NEC basics with the 2008 Edition of User's Guide to the National Electrical Code This full color illustrated text has been completely revised to include new chapter features that guide students through the 2008 Code reinforcing key principles such as the difference between GFPE and GFCI equipment With this text students will 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 User's Guide is the key to getting the right answers faster and more 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 National Association of Broadcasters Engineering Handbook Graham A. Jones, David H. Layer, Thomas G. Osenkowsky, 2013-04-26 The NAB Engineering Handbook provides detailed information on virtually every aspect of the broadcast chain from news gathering program production and postproduction through master control and distribution links to transmission antennas RF propagation cable and satellite Hot topics covered include HD Radio HDTV 2 GHz broadcast auxiliary services EAS workflow metadata digital asset management advanced video and audio compression audio and video over IP and Internet broadcasting A wide range of related topics that engineers and managers need to understand are also covered including broadcast administration FCC practices technical

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Automated Lighting: The Art and Science of Moving Light in Theatre, Live Performance, Broadcast, and Entertainment Richard Cadena, 2006-09-06 This book covers everything you should know as a lighting professional about automated lighting in easy to understand language including how they work how to use them and special design issues to consider in order to keep abreast in a highly competitive environment where knowledge is crucial to your success Home

Power ,2009 **Electrical Inspection Manual with Checklists** Jeffrey S. Sargent, Noel Williams, 2006-04-24 Electrical Evaluating Climate Change Impacts Vyacheslav Lyubchich, Yulia Gel, K. Halimeda Kilbourne, Thomas James Inspection Miller, Nathaniel K. Newlands, A. Smith, 2020-10-07 Evaluating Climate Change Impacts discusses assessing and quantifying climate change and its impacts from a multi faceted perspective of ecosystem social and infrastructure resilience given through a lens of statistics and data science It provides a multi disciplinary view on the implications of climate variability and shows how the new data science paradigm can help us to mitigate climate induced risk and to enhance climate adaptation strategies This book consists of chapters solicited from leading topical experts and presents their perspectives on climate change effects in two general areas natural ecosystems and socio economic impacts The chapters unveil topics of atmospheric circulation climate modeling and long term prediction approach the problems of increasing frequency of extreme events sea level rise and forest fires as well as economic losses analysis of climate impacts for insurance agriculture fisheries and electric and transport infrastructures. The readers will be exposed to the current research using a variety of methods from physical modeling statistics and machine learning including the global circulation models GCM and ocean models statistical generalized additive models GAM and generalized linear models GLM state space and graphical models causality networks Bayesian ensembles a variety of index methods and statistical tests and machine learning methods The reader will learn about data from various sources including GCM and ocean model outputs satellite observations and data collected by different agencies and research units Many of the chapters provide references to open source software R and Python code that are available for implementing the methods **Building Systems for Interior Designers Corky** Binggeli, 2011-10-11 Building Systems for interior designers Second Edition Corky Binggeli asid The updated guide to technical building systems for interior designers As integral members of the building design team interior designers share an increasingly complex and crucial role Now revised in its second edition Building Systems for Interior Designers remains the one go to resource that addresses the special concerns of the interior designer within the broader context of the rest of the building design team Building Systems for Interior Designers Second Edition explains technical building systems and engineering issues in a clear and accessible way to interior designers Covering systems from HVAC to water and waste to lighting transportation and safety author Corky Binggeli enables interior designers to communicate more effectively with architects engineers and contractors collaborate effectively on projects and contribute to more accurate solutions for a broad range of building considerations Among the many improvements in the Second Edition are A deeper engagement with sustainable building design giving the interior designer the resources needed to participate as part of a sustainable design team A reshaped structure that enhances the reader's understanding of the material Many more illustrations and explanatory captions With a host of features to make the book more up to date easier to use and more effective as an instructive guide Building Systems for Interior Designers Second Edition is a valuable book for students as well as a practical desktop

reference for professionals **Energy-Efficient Electrical Systems for Buildings** Moncef Krarti, 2017-03-03 Energy Efficient Electrical Systems for Buildings offers a systematic and practical analysis and design approaches for electrical distribution and utilization systems in buildings In addition to meeting the minimal safety requirements set by the National Electrical Code NEC the design approach consider the life cycle cost analysis of designing energy efficient electrical distribution systems as well as integrating renewable energy technologies into both residential and commercial buildings The book first provides a general overview of basic power systems commonly available in buildings Then detailed discussions of various components of typical building electrical distribution system are outlined through several chapters including transformers protection devices conductors and conduits power and lighting panels and motor control centers The book includes several illustrations and numerous examples and analysis exercises are included along with detailed design examples Transmission, Distribution, and Renewable Energy Generation Power Equipment Bella H. Chudnovsky, 2017-03-07 The revised edition presents extends and updates a thorough analysis of the factors that cause and accelerate the aging of conductive and insulating materials of which transmission and distribution electrical apparatus is made New sections in the second edition summarize the issues of the aging reliability and safety of electrical apparatus as well as supporting equipment in the field of generating renewable energy solar wind tide and wave power When exposed to atmospheric corrosive gases and fluids contaminants high and low temperatures vibrations and other internal and external impacts these systems deteriorate eventually the ability of the apparatus to function properly is destroyed In the modern world of green energy the equipment providing clean electrical energy needs to be properly maintained in order to prevent premature failure The book s purpose is to help find the proper ways to slow down the aging of electrical apparatus improve its performance and extend the life of power generation transmission and distribution equipment **Contractor's Guide to** the Building Code Jack M. Hageman, 2008 Don't let your jobs be held up by failing code inspections Smooth sign off by the inspector is the goal but to make this ideal happen on your job site you need to understand the requirements of latest editions of the International Building Code and the International Residential Code Understanding what the codes require can be a real challenge This new completely revised Contractor's Guide to the Building Code cuts through the legalese of the code books It explains the important requirements for residential and light commercial structures in plain simple English so you can get it right the first time NEC® 2008 Need to Know Kimberley Keller, 2008-07-01 Get Quick Access to the NEC Essentials Turn to NEC 2008 Need to Know for guick access to vital National Electrical Code NEC information that you need This expert resource explains and interprets key material from the first four chapters of the NEC including general installation requirements branch circuits feeders services overcurrent protection grounding conductors conduits cables fixture wiring switches receptacles lighting motors a c and refrigeration and generators plus critical tables from Chapter 9 Packed with on target illustrations this essential compliance tool contains calculations and formulas commonly used to

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