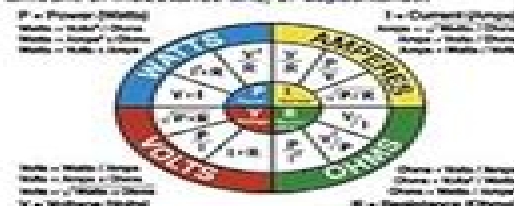


NEUTRAL & GROUNDED CONDUCTORS (NEC Article 90; Article 200; Article 300)

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

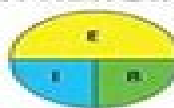
$$E = I \times R$$

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

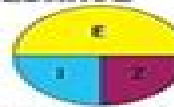
$$I = E \div Z$$

Impedance = Voltage ÷ Current

$$Z = E \div I$$

E = Voltage (in volts) **I** = Current (in amps)

Z = Impedance (in Ohms)



POWER DIAGRAM & FORMULAS

Power = Current x Voltage

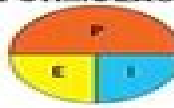
$$P = I \times E$$

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 ³	in. ³
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)(3))

- 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 Uk 2012

**HALDEN MORRIS & NORMAN
CHAMBERS**

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the authors' names.

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Measurement and Safety Béla G. Lipták, Kriszta Venczel, 2016-11-25 The Instrument and Automation Engineers Handbook IAEH is the 1 process automation handbook in the world Volume one of the Fifth Edition Measurement and Safety covers safety sensors and the detectors of physical properties Measurement and Safety is an invaluable resource that Describes the detectors used in the measurement of process variables Offers application and method specific guidance for choosing the best measurement device Provides tables of detector capabilities and other practical information at a glance Contains detailed descriptions of domestic and overseas products their features capabilities and suppliers including suppliers web addresses Complete with 163 alphabetized chapters and a thorough index for quick access to specific information Measurement and Safety is a must have reference for instrument and automation engineers working in the chemical oil gas pharmaceutical pollution energy plastics paper wastewater food etc industries About the eBook The most important new feature of the IAEH Fifth Edition is its availability as an eBook The eBook provides the same content as the print edition with the addition of thousands of web addresses so that readers can reach suppliers or reference books and articles on the hundreds of topics covered in the handbook This feature includes a complete bidders list that allows readers to issue their specifications for competitive bids from any or all potential product suppliers , High Voltage Insulating Materials-Current State and Prospects Pawel Rozga, 2021-09-07 Studies on new solutions in the field of high voltage insulating materials are presented in this book Most of these works concern liquid insulation especially biodegradable ester fluids however in a few cases gaseous and solid insulation are also considered Both fundamental research as well as research related to industrial applications are described In addition experimental techniques aimed at possibly finding new ways of analysing the experimental data are proposed to test dielectrics *Guidelines for Siting and Layout of Facilities* CCPS (Center for Chemical Process Safety), 2018-04-20 This book has been written to address many of the developments since the 1st Edition which have improved how companies survey and select new sites evaluate acquisitions or expand their existing facilities This book updates the appendices containing both the recommended separation distances and the checklists to help the teams obtain the information they need when locating the facility within a community when arranging the processes within the facility and when arranging the equipment within the process units **FUNDAMENTALS OF FAULT CURRENT AND GROUNDING IN ELECTRICAL SYSTEMS** HALDEN MORRIS & NORMAN CHAMBERS, 2014-06-30 This book seeks to explain in simple terms the behavior of fault current through the general mass of earth the origin of short circuit current and its value and how a circuit breaker operates The drawings are unique and allow the reader to visualize the behavior of a fault current The book clarifies common myths pertaining to a grounding electrode short circuit and opens neutral conditions and provides an unambiguous understanding of the theoretical and practical explanation for an effective earthing and protective system in electrical installations There are numerous grounding problems and unexplained fault conditions in

electrical circuitry that are taken for granted and left unattended for extended periods Potential voltage can be found on the earthing conductors in processing plants refineries and other industrial plants A combination of topics in this book addresses problems that have been adversely affecting the electrical industry for years There are a number of systems in the electrical industry that are common in the workplace but are not understood by the average workman who has to work with these systems daily Systems such as ungrounded systems clean earthing systems motor controls resistance grounding lightning protection systems and Intra earthing systems are all common systems however the knowledge base of these systems is very limited This book highlights the basics of these topics and gives a working overview of these systems The book also discusses the principle of operation of the ground fault circuit interrupter GFCI It is expected that the information provided will allow the reader to visualize various types of GFCIs and the principle of operation without necessarily having to revert to other text

Electricity for the Entertainment Electrician & Technician Richard Cadena, 2014-02-03 The application of electricity for the theatre or a concert stage is not the same as for a residence or commercial building Electricity for the Entertainment Electrician Technician provides you with the fundamentals of theory of electricity as well as the latest guidelines and tips for how to stay safe current and meet the needs of the entertainment industry Written by an ETCP Entertainment Technician Certification Program trainer this reference supports practicing technicians and provides new technicians the assistance needed for a successful career in the entertainment industry The only reference on electricity for the entertainment industry professional Written by an ETCP Entertainment Technician Certification Program trainer and seasoned professional Free additional practice problems and animations at www.electricityentertainmenttech.com **Dust Explosions** Jean Cross, Donald Farrer, 2012-12-06 The interest of the media in dust explosions increased considerably following two major grain elevator disasters in the United States in 1979 However these were not isolated incidents and were statistically unusual only in the high loss of life involved Any oxidizable material that is dispersed in fine powder form may be explosive and ignition sources with sufficient energy to ignite a dust cloud are easily produced in normal industrial processing Dust fires and minor incidents are not uncommon in many industries but fortunately the combination of events and circumstances that must coincide for a large scale explosion arise only rarely Nevertheless this is often more by luck than by good management and many potentially hazardous situations are common in industry An explosive dust cloud and the circumstances in which it can ignite are not as simple to define as the equivalent situation in gases or flammable vapors A large number of definitions and experimental tests have been devised to characterize the explosibility of dusts and ignition sources The aim of this book is to provide a guide describing conditions in industry that could lead to dust explosions and the means to avoid them Ignition sources and the way in which they can arise in powder processing are discussed and illustrated by case histories of reported incidents The methods by which the potential hazards of a process or product can be evaluated are described with special attention paid to the interpretation of the results of the different experimental methods

Building Electrical Systems and Distribution Networks Radian Belu, 2020-02-13 This book covers all important new and conventional aspects of building electrical systems power distribution lighting transformers and rotating electric machines wiring and building installations Solved examples end of chapter questions and problems case studies and design considerations are included in each chapter highlighting the concepts and diverse and critical features of building and industrial electrical systems such as electric or thermal load calculations wiring and wiring devices conduits and raceways lighting analysis calculation selection and design lighting equipment and luminaires power quality building monitoring noise control building energy envelope air conditioning and ventilation and safety Two chapters are dedicated to distributed energy generation building integrated renewable energy systems microgrids DC nanogrids power electronics energy management and energy audit methods topics which are not often included in building energy textbooks Support materials are included for interested instructors Readers are encouraged to write their own solutions while solving the problems and then refer to the solved examples for more complete understanding of the solutions concepts and theory **Guidelines for Safe**

Automation of Chemical Processes CCPS (Center for Chemical Process Safety), 2017-01-06 This book provides designers and operators of chemical process facilities with a general philosophy and approach to safe automation including independent layers of safety An expanded edition this book includes a revision of original concepts as well as chapters that address new topics such as use of wireless automation and Safety Instrumented Systems This book also provides an extensive bibliography to related publications and topic specific information *Biobanking in the 21st Century* Feridoun

Karimi-Busheri, 2015-09-29 Biobanking an emerging field supported by academia industry and health administrators alike is distinctly different today from the practice that once defined it The science of Biobanking which initially involved simply storing blood or tissue samples in a freezer is now a highly sophisticated field of research and expected to grow exponentially over the next decade or two This book aims to serve the purpose of further enriching the available literature on Biobanking by offering unique and more useful collection of ideas for the future The book outlines the experiences of developing modern Biobanking repositories in different countries whilst covering specific topics regarding the many aspects of Biobanking This book will be of interest to a wide range of readers including academics students volunteers and advocates of patients rights

Health and Safety in Early Years and Childcare Bernadina Laverty, Catherine Reay, 2014-03-24 A practical guide to health and safety in early years settings with a step by step guide to the law compliance and practical application *Stage Lighting*

Richard E Dunham, 2018-12-07 Stage Lighting Design Applications and More builds upon the information introduced in Stage Lighting The Fundamentals to provide an in depth reference to a number of specialty areas of lighting design from traditional applications such as drama dance and designing for different venues to more advanced applications such as concert corporate film and video virtual architectural landscape and other forms of entertainment lighting Each chapter gives the essential background design practices and equipment details for each specialization so readers can make informed decisions

and ask informed questions when encountering each field The book provides insight on the latest technology and includes profiles of prolific designers such as James Moody Jeff Ravitz Alan Adelman and Paul Gregory Stage Lighting Design Applications and More is intended to help lighting designers translate their theatrical skills to other areas of lighting design and provides guidance on how to take those initial steps into new ventures in their lighting careers Instrument and Automation Engineers' Handbook Bela G. Liptak, Kriszta Venczel, 2022-08-31 The Instrument and Automation Engineers Handbook IAEH is the Number 1 process automation handbook in the world The two volumes in this greatly expanded Fifth Edition deal with measurement devices and analyzers Volume one Measurement and Safety covers safety sensors and the detectors of physical properties while volume two Analysis and Analysis describes the measurement of such analytical properties as composition Complete with 245 alphabetized chapters and a thorough index for quick access to specific information the IAEH Fifth Edition is a must have reference for instrument and automation engineers working in the chemical oil gas pharmaceutical pollution energy plastics paper wastewater food etc industries JOB INTERVIEW Offshore Oil & Gas Platforms Petrogav International Oil & Gas Training Center, 2020-07-01 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 287 questions and answers for job interview and as a BONUS web addresses to 289 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry Offshore Oil & Gas Platforms JOB INTERVIEW Petrogav International Oil & Gas Training Center, 2020-07-01 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 279 questions and answers for job interview and as a BONUS web addresses to 273 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry *How to be prepared for job interview Offshore Oil & Gas Rigs* Petrogav International Oil & Gas Training Center, 2020-07-01 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will

expect you to be able to answer them smoothly and without hesitation This eBook contains 277 questions and answers for job interview and as a BONUS web addresses to 289 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry **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 *Guidelines for*

Combustible Dust Hazard Analysis CCPS (Center for Chemical Process Safety),2017-05-01 This book describes how to conduct a Combustible Dust Hazard Analysis CDHA for processes handling combustible solids The book explains how to do a dust hazard analysis by using either an approach based on compliance with existing consensus standards or by using a risk based approach Worked examples in the book help the user understand how to do a combustible dust hazards analysis

Mechanical Design and Manufacturing of Electric Motors Wei Tong,2022-05-20 This Second Edition of Mechanical Design and Manufacturing of Electric Motors provides in depth knowledge of design methods and developments of electric motors in the context of rapid increases in energy consumption and emphasis on environmental protection alongside new technology in 3D printing robots nanotechnology and digital techniques and the challenges these pose to the motor industry From motor classification and design of motor components to model setup and material and bearing selections this comprehensive text covers the fundamentals of practical design and design related issues modeling and simulation engineering analysis manufacturing processes testing procedures and performance characteristics of electric motors today This Second Edition adds three brand new chapters on motor breaks motor sensors and power transmission and gearing systems Using a practical approach with a focus on innovative design and applications the book contains a thorough discussion of major components and subsystems such as rotors shafts stators and frames alongside various cooling

techniques including natural and forced air direct and indirect liquid phase change and other newly emerged innovative cooling methods It also analyzes the calculation of motor power losses motor vibration and acoustic noise issues and presents engineering analysis methods and case study results While suitable for motor engineers designers manufacturers and end users the book will also be of interest to maintenance personnel undergraduate and graduate students and academic researchers

The Water-Food-Energy Nexus I. M. Mujtaba, R. Srinivasan, N. O. Elbashir, 2017-09-11 Exponential growth of the worldwide population requires increasing amounts of water food and energy However as the quantity of available fresh water and energy sources directly affecting cost of food production and transportation diminishes technological solutions are necessary to secure sustainable supplies In direct response to this reality this book focuses on the water energy food nexus and describes in depth the challenges and processes involved in efficient water and energy production and management wastewater treatment and impact upon food and essential commodities The book is organized into 4 sections on water food energy and the future of sustainability highlighting the interplay among these topics The first section emphasizes water desalination water management and wastewater treatment The second section discusses cereal processing sustainable food security bioenergy in food production water and energy consumption in food processing and mathematical modeling for food undergoing phase changes The third section discusses fossil fuels biofuels synthetic fuels renewable energy and carbon capture Finally the book concludes with a discussion of the future of sustainability including coverage of the role of molecular thermodynamics in developing processes and products green engineering in process systems petrochemical water splitting petrochemical approaches to solar hydrogen generation design and operation strategy of energy efficient processes and the sustainability of process supply chain and enterprise

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