

# ELECTRICAL

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### Instructor Resources:

- AK = Online Answer Key to End-of-Chapter Questions
- IB = Image Bank
- ITK = Instructor's ToolKit
- PP = PowerPoint Slides
- TB = Test Bank

### Student Resources:

- CD = CD-ROM
- SG = Study Guide

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**New for 2010**

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## Ugly's Electrical References

2011 Edition

**George V. Hart** and **Sammie Hart**

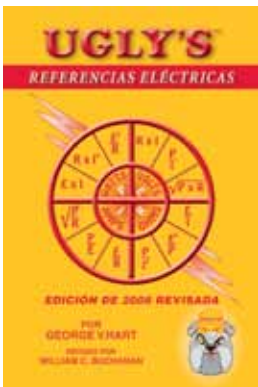
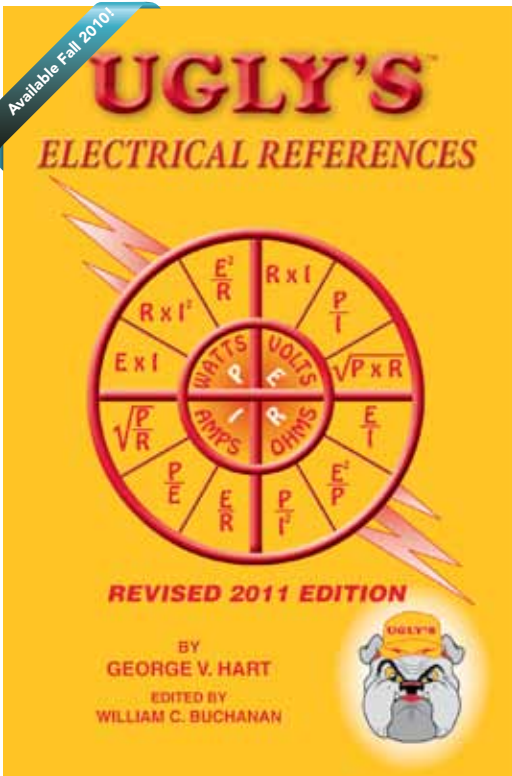
Electricians know, when it comes to on-the-job references, *Ugly's* can't be beat! This essential pocket guide has remained the industry standard for over 25 years by providing electricians with fast access to the most commonly required electrical information. Now, completely updated for the 2008 National Electrical Code® (NEC), *Ugly's* continues its excellent tradition as a vital, on-the-job resource with its coverage of pertinent mathematical formulas, NEC tables, wiring configurations, conduit bending, voltage drops, and life-saving first aid procedures.

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\$18.95\* • Spiral • 184 Pages • © 2012

## Ugly's Electrical References

2008 Edition

ISBN-13: 978-0-7637-7126-3  
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## Ugly's Referencias Eléctricas

Now the classic *Ugly's* is available in Spanish! This must-have reference for Spanish-speaking electrical professionals and students is packed with comprehensive and easy-to-read tables, while the handy, pocket-sized format makes locating facts quick and easy.

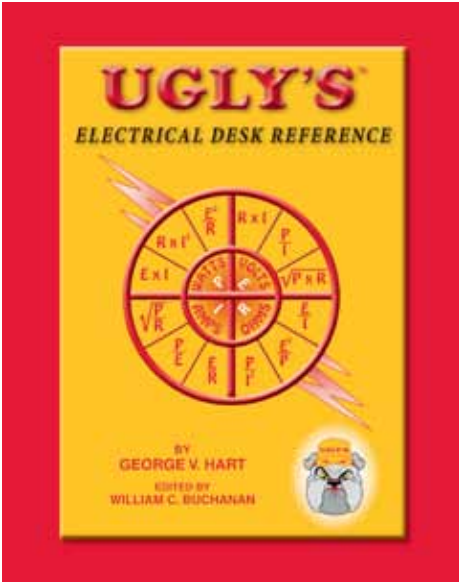
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## Ugly's Electrical Desk Reference

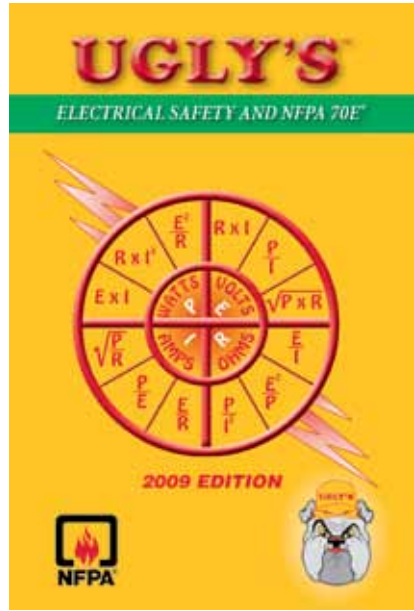
2008 Edition

The industry's best on-the-job pocket guide is now available as a desk reference; packed with essential electrical information and easy-to-read charts, diagrams, calculations, illustrations, and tables. With its larger size, new key terms and definitions, and additional information on electrical safety, *Ugly's* is an indispensable resource for every office, keeping essential information readily at hand.

### Key Features

- Larger Format makes critical information easy to find and read
- Definitions in the margin clarify common and complex terminology
- NEC Links reference related articles and sections of the 2008 National Electrical Code®
- Most Common Mistakes highlight safety considerations for certain procedures
- Tips for New Electricians provide valuable solutions for commonly made mistakes
- Additional Practice solves calculations step-by-step in the margin

ISBN-13: 978-0-7637-7333-5  
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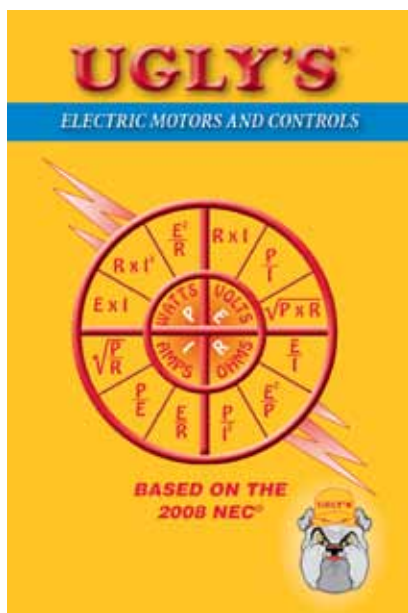
## Ugly's Electrical Safety and NFPA 70E®

*Ugly's Electrical Safety and NFPA 70E®* is the first pocket-sized summary of NFPA 70E® 2009 Edition with references to current OSHA regulations and the 2008 National Electrical Code® (*NEC*). Designed to provide fast access to the most commonly referenced sections of NFPA 70E and related safety standards, *Ugly's* covers the safety requirements of electrical systems operating at or below 600 volts, including: six-step procedures for establishing an electrically safe work condition, meter safety, safe electrical work practices, Personal Protective Equipment (PPE), configurations, electrical hazards, and first aid.

### Key Features

- Completely up-to-date for NFPA 70E® 2009 Edition, the 2008 *NEC*, and OSHA regulations, with a discussion on how the three relate to one another
- Detailed coverage of Arc Flash hazards and causes, Arc Blast hazards, and contact and non-contact hazards
- Includes information on available PPE and its appropriate use

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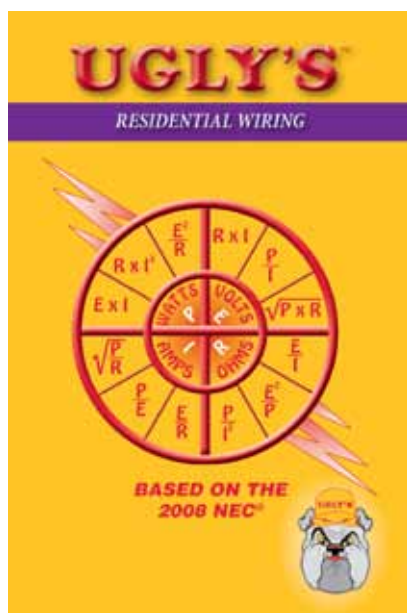
## Ugly's Electric Motors and Controls

*Ugly's Electric Motors and Controls* is a quick, on-the-job reference specifically designed to provide the most commonly required information on the design, installation, application, and maintenance of motors and controls in an easy-to-read, easy-to-access format. This essential pocket guide uses diagrams, calculations, and quick explanations to ensure jobs are completed safely and correctly and in accordance to industry standards.

### Key Features

- Completely up-to-date for the 2008 National Electrical Code®
- Thorough explanations on how to calculate synchronous speed, running speed, cost of operating an electrical appliance, amperes, horsepower, kilowatts, KVA, voltage drops, and more
- Coverage of AC and DC motor operation at over- and under-voltages, full-load current for direct-current motors and single-phase alternating current motors in amperes, as well as three-phase alternating current motors full-load current
- Includes NEMA enclosure types for hazardous and nonhazardous locations

ISBN-13: 978-0-7637-7254-3  
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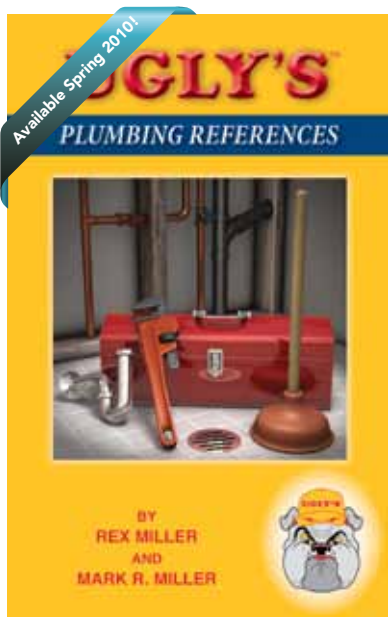
## Ugly's Residential Wiring

Find practical solutions to common problems encountered while installing or replacing electrical wiring with *Ugly's Residential Wiring*. This handy pocket guide includes helpful information on: wiring methods, conduit bending, circuits, services, lighting, receptacles, appliances, and more. Filled with helpful wiring diagrams, illustrations, calculations, and tables, *Ugly's* helps keep jobs safe, on task, and up-to-Code with specific rules, symbols, and Code requirements for wiring both one- and two-family dwellings.

### Key Features

- Completely up-to-date for the 2008 National Electrical Code® (NEC)
- Includes information on underground feeder cable: type UP article 340 of the NEC, service entrance cable: types SE and use article 338 of the NEC, branch-circuit rules and requirements, and common electrical distribution systems
- Exceptional review of lighting outlets and switches, including required lighting outlets, switch control of lighting outlets, switch-controlled receptacles, and switch and receptacle heights

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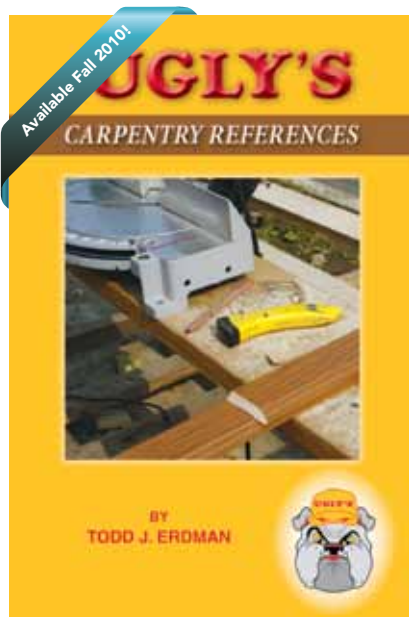
## Ugly's Plumbing References

*Ugly's Plumbing References* is a quick, on-the-job resource specifically designed to provide plumbing professionals with the most commonly required information on installing plumbing piping, fixtures, and appliances in both commercial and residential buildings. This essential pocket guide includes diagrams, calculations, and quick explanations on how-to select proper materials, tools, and equipment, as well as how-to: size sanitary drainage, vents, and water supply piping; calculate water demand; test and inspect plumbing systems; and much more. Unlike other plumbing pocket guides, *Ugly's* incorporates invaluable information for license preparation, such as tips on studying plumbing systems, drawings, and the operation of typical systems, the latest tools and digital devices within the trade, and methods for handling the latest digital equipment.

### Key Features

- Coverage of safe plumbing terms, codes and standards, and helpful abbreviations and symbols
- Step-by-step overview of conversions and equivalents, fractions, angles, shapes, and forms
- Special section on hand signals for hoisting and knots

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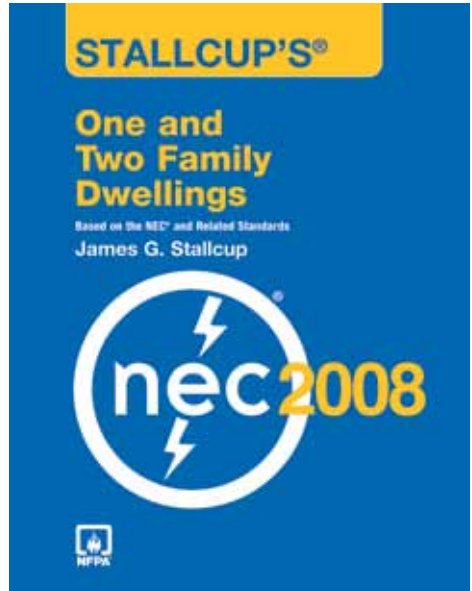
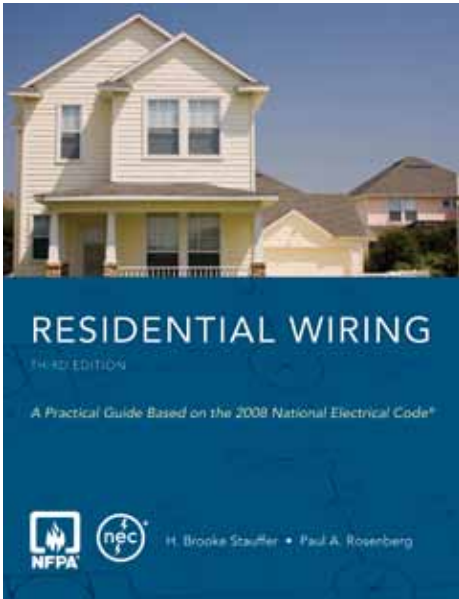
## Ugly's Carpentry References

*Ugly's Carpentry References* is designed to be used as a quick on-the-job reference, containing the most commonly required information for residential and commercial carpenters, all in an easy-to-read, easy-to-access format. This must-have resource provides expert instruction on constructing, erecting, installing, and repairing structures and fixtures, such as concrete forms, building frameworks, stairways, windows, door frames, flooring, and much more. This invaluable tool uses quick explanations and illustrations to discuss how-to measure, mark, and arrange materials, cut and shape, join items with nails, staples, or glue, and check projects for accuracy, making it an indispensable resource for every carpenter's tool box.

### Key Features

- Extensive coverage of essential mathematics, measurements, conversions, estimating tools, and layout guides
- Step-by-step instructions for framing and finishing floors, stairs, walls, windows, doors, roofs, and foundations
- Full coverage of hand and power tools, material handling, and safety
- Comprehensive illustrations and tables to assist the professional in most any job

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## Residential Wiring

*Third Edition*

**H. Brooke Stauffer**  
**Paul A. Rosenberg**

*Residential Wiring, Third Edition* is a practical introduction to the general wiring principles, methods, installations, calculations, and service equipment used in 90% of dwellings. Covering actual construction practices for installing electrical systems in one- and two-family dwellings, this text combines in-depth instruction of 2008 National Electrical Code® (NEC) rules with detailed, hands-on information about residential wiring practices and full-color illustrations to make this an accessible and reader-friendly textbook. Outlining the steps and precautions needed to install power wiring, residential smoke detectors, and systems covered in Article 800 of the NEC, the text addresses specific challenges room by room, including AFCI protection for bedrooms, and GFCI protection for bathrooms.

### Key Features

- Case Studies provide real-world scenarios faced by an electrician working with residential wiring
- Safety First Boxes offer safety considerations for different locations
- Warning Boxes alert students to areas of the Code that require special attention

ISBN-13: 978-0-7637-5260-6

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⊕ **Instructor Resources:** ITK

## Stallcup's® One and Two Family Dwellings

*2008 Edition*

**James G. Stallcup**

*Stallcup's® One and Two Family Dwellings* presents an all-encompassing view of wiring methods used in residential electrical systems to ensure the accurate interpretation and application of electrical requirements as listed in the 2008 National Electrical Code® (NEC). Taking a unique three-pronged approach to the topic, the text introduces readers to design, installation, and inspection techniques of electrical systems, correlating dwelling unit requirements for easy comprehension. To move readers seamlessly through the material, sections of the Code have been listed where appropriate for fast reference and review. Filled with expert advice and detailed illustrations, this essential resource from renowned electrical expert James G. Stallcup makes it easy to ensure that electrical systems are safe, reliant, and comply with the NEC.

### Key Features

- Includes electrical installation checklists and inspection forms
- Expert advice on design procedures and calculations

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## Electrical Design of Commercial and Industrial Buildings

**John Hauck**

*Electrical Design of Commercial and Industrial Buildings* teaches students the critical components of electrical design through an integrated approach that combines fundamental theory with hands-on practice. By taking an applied-learning approach to instruction, this text explains electrical principles, design criteria, codes, and other key elements of the design process, then guides students through each step as they create their own electrical design plans. A companion CD-ROM with sample plans—accompanied by example equipment lists, lighting fixture schedules, and calculation templates—provides students with a comprehensive framework for experiential learning.

### Key Features

- Includes 4 full-size electrical design blueprints
- Interactive CD-ROM features sample projects and reference materials
- Chapters highlight key terms, critical thinking questions and real-world “tips”
- All the resources necessary to execute a complete electrical design

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## Stallcup's® Electrical Design 2008 Edition

**James G. Stallcup**

The best practices for electrical design change with every edition of the *NEC*. *Stallcup's® Electrical Design, 2008 Edition* shortens the learning curve by providing a comprehensive review of the most current design and installation procedures; including over 1,100 illustrations, calculations, practice exams, and “rule of thumb” methods to assist in finding fast, accurate answers to complex design questions. The new, 2008 Edition explains National Electrical Code® (*NEC*) rules and provides updated *Code* references to ensure electrical plans and installations comply with safety regulations and pass inspection the first time. Numerous new design tips, examples, “*NEC* loops,” and sample calculations help boost proficiency and speed, while the easy-to-read text points out common industry problems and illustrates the proper techniques to use for *NEC* compliance.

### Key Features

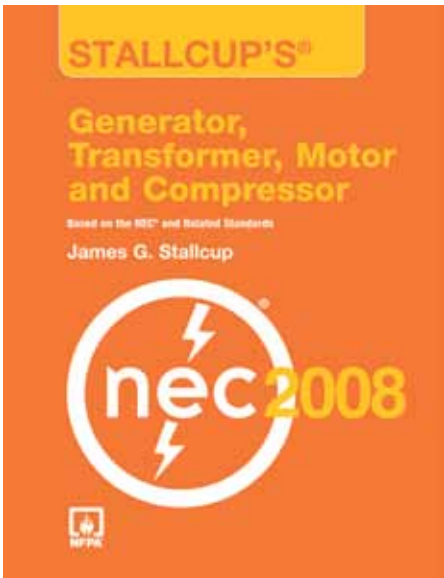
- Definitions for grounding and bonding and grounded conductors calculations
- Multiwire branch circuits and identification for branch circuits and feeders
- Working spaces around equipment, GFCI and AFCI requirements, and separately derived systems

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## Stallcup's® Generator, Transformer, Motor and Compressor

2008 Edition

James G. Stallcup

This unique training solution provides a complete introduction to all types of rotating machinery; blending basic principles and theory with more advanced operating instructions and maintenance requirements to provide a comprehensive overview of what types of machines are available, how and why each device works, and which *Code* rules apply in the design and installation. Author tips, detailed illustrations, and hundreds of test questions reinforce explanations, guide learning, and improve expertise. Completely updated for the 2008 National Electrical Code® (*NEC*), *Stallcup's®* discusses how *NEC* rules apply to each type of rotating machinery to ensure *Code* compliant work.

### Key Features

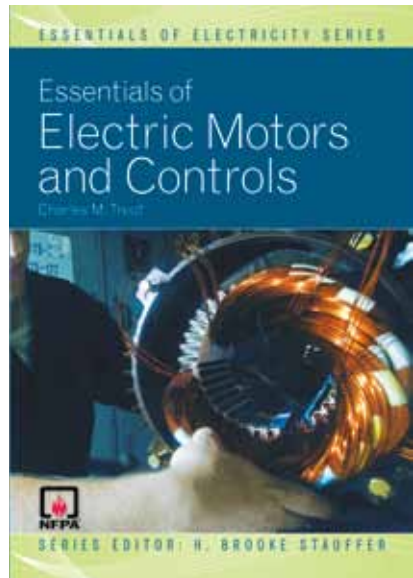
- Reviews generator and nameplate markings, plus emergency system and hospital generators
- Discusses motor and compressor design and code letters
- Includes hundreds of test questions for exam preparation

ISBN-13: 978-0-7637-5255-2

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⊕ **Instructor Resources:** ITK

⊕ **Student Resources:** AK



## Essentials of Electric Motors and Controls

Charles M. Trout

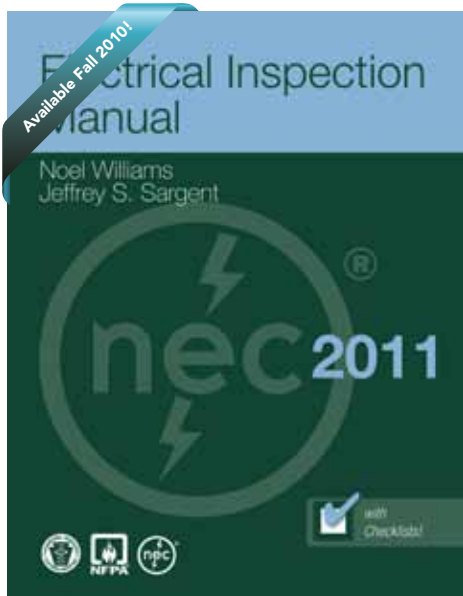
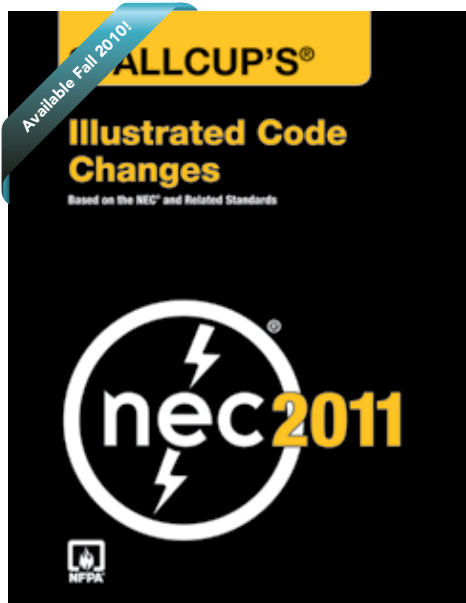
Quickly come up to speed on basic principles of electric motor design, installation, and maintenance procedures with *Essentials of Electric Motors and Controls*. An ideal introduction to the topic or a comprehensive explanation of the relevant sections of the National Electrical Code® (*NEC*), this practical guide is your source for complete and up-to-date information on how an electric motor works, the different types of available motors, and their various applications. The second title in the *Essentials of Electricity* series provides essential information about the internal construction of common electric motors, laying the ground work for electric motor operational theory as well as maintenance and repair processes in regard to the 2008 *NEC*.

### Key Features

- Filled with concise explanations and detailed, clear illustrations
- Special section on the grounding of motors, the effects of magnetism and magnetic fields
- Put it to the Test feature guides readers through simple step-by-step instruction to perform the necessary calculations and procedures

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## Stallcup's® Illustrated Code Changes

2011 Edition

James G. Stallcup

Clear, concise explanations and detailed, full-color illustrations explain the most important Code revisions! Updated for the 2011 National Electrical Code® (NEC), *Stallcup's® Illustrated Code Changes, 2011 Edition* gives every electrical professional the means to grasp hundreds of key NEC revisions needed to stay competitive and in compliance. Filled with expert advice, this established reference from renowned electrical expert and trainer James G. Stallcup facilitates easy and accurate application of the latest requirements for safe electrical installations.

### Key Features

- Detailed, full-color illustrations known throughout the industry
- Expert advice, calculations, and excerpts of actual 2011 and 2008 Code text for all changes covered
- Comprehensive tables including references to OSHA, NEMA, API, and NFPA 70E®
- Clear information for locating background facts in NEC reports and proposals
- Author comments provide explanations for relevant Code text

ISBN-13: 978-0-7637-9094-3

\$79.95\* • Paperback • 412 Pages • © 2012

## Electrical Inspection Manual

2011 Edition

Noel Williams

Jeffrey S. Sargent

Packed with precise, step-by-step checklists, detailed illustrations, and informative chapter explanations, the *Electrical Inspection Manual, 2011 Edition* identifies important Code rules and provides guidance on how-to organize checklists by occupancy type to increase thoroughness and decrease the likelihood of overlooking potential problems. Written by certified electrical inspectors, and endorsed by the National Fire Protection Association (NFPA) and the International Association of Electrical Inspectors (IAEI), this fully illustrated manual explains significant tasks, defines terms, outlines key questions, and provides a concise overview of the electrical inspection process.

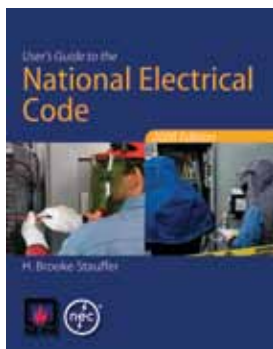
### Key Features

- Planning from Start to Finish identifies logical starting points and the proper sequence for inspections
- Working Through the Checklists explains, in detail, each numbered checklist item
- Checklists reference applicable National Electrical Code® articles and sections
- Available with a CD-ROM of all checklists presented in the text

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⊕ Student Resources: CD



## User's Guide to the National Electrical Code®

2008 Edition

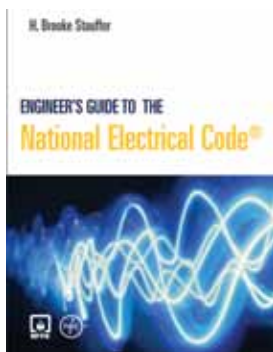
**H. Brooke Stauffer**

Meeting the 2008 National Electrical Code® (NEC), this textbook combines thorough instruction with a conversational writing style, full-color illustrations, and actual *Code* excerpts to create a guide that helps students easily navigate the *Code*. Logically arranged to match the structure and organization of the *NEC*, the text includes chapter features that explain the intent behind the most critical *Code* requirements, discuss how articles and chapters work together, and examine the impact of the *Code* on other electrical standards and building codes.

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**+** **Instructor Resources:** ITK



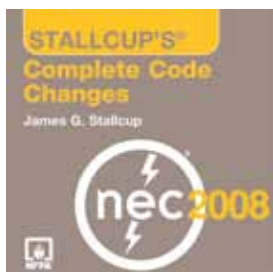
## Engineer's Guide to the National Electrical Code®

**H. Brooke Stauffer**

Electrical engineers responsible for designing, specifying, and maintaining premises wiring systems must have a thorough understanding of the National Electrical Code® (NEC). The purpose of this guide is to introduce electrical engineering students to the *Code* rules that govern installation of electrical power, communications, and control systems. This guide assembles information from many different parts of the *Code* in logical groupings to help electrical engineers understand the complexity and interrelationships among different sections of the *NEC*, while developing a comprehensive view of this global regulatory code.

**ISBN-13: 978-0-7637-4886-9**

**\$47.95\* • Paperback • 174 Pages • © 2008**



## Stallcup's® Complete Code Changes

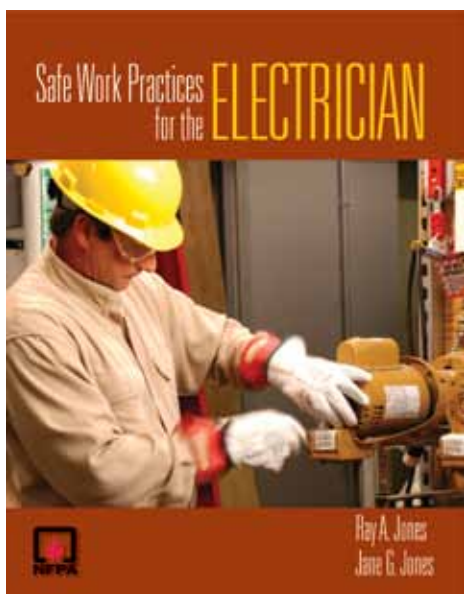
2008 Edition

**James G. Stallcup**

Now you can find every word deleted, added, moved, or renumbered in the 2008 National Electrical Code® (NEC) with *Stallcup's® Complete Code Changes, 2008 Edition*. This convenient, easy-to-use CD-ROM makes finding changes to the *Code* quick and efficient. Strategically arranged with intuitive marks and symbols, *Stallcup's®* comprehensively guides users through every altered article and section in the 2008 *NEC*.

**ISBN-13: 978-0-7637-5150-0**

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## Safe Work Practices for the Electrician

**Ray A. Jones**  
**Jane G. Jones**

*Safe Work Practices for the Electrician* takes a unique, blended learning approach to the topic of electrical safety to provide students with a clear overview of how to accurately incorporate safety regulations and theory with every day work tasks. Based on NFPA 70E® 2009 Edition, the 2008 National Electrical Code® (NEC) and the most current OSHA regulations this introductory text covers the fundamentals of electrical safety along with common work practice hazards, providing tips for identifying potential dangers and ways to avoid or mitigate each risk for the protection of electrical workers and equipment. Expert explanations are accompanied by actual accounts from the field to help students understand the root cause of electrical accidents, while “Best Practice” boxes assist comprehension of key processes students will encounter in the field.

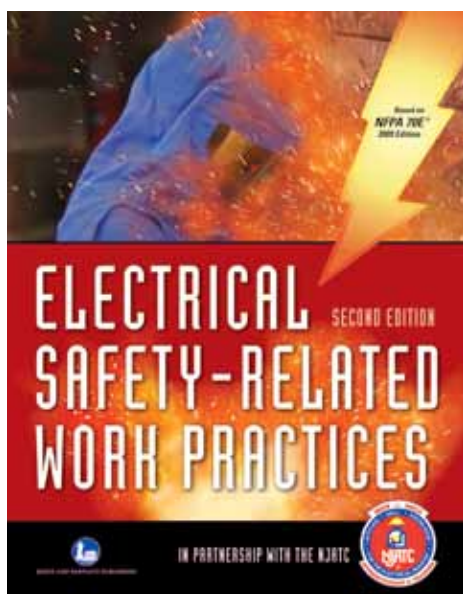
### Key Features

- Practical Tips discuss tips for applying concepts to real-life situations electricians encounter in the field
- On The Job provides real-life stories focused on electrical safety that emphasize the do’s and don’ts of working with electricity – and the consequences of electrician’s decisions.

ISBN-13: 978-0-7637-5215-6

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## Electrical Safety-Related Work Practices

*Second Edition*

**Palmer Hickman**  
**National Joint Apprenticeship and Training Committee**

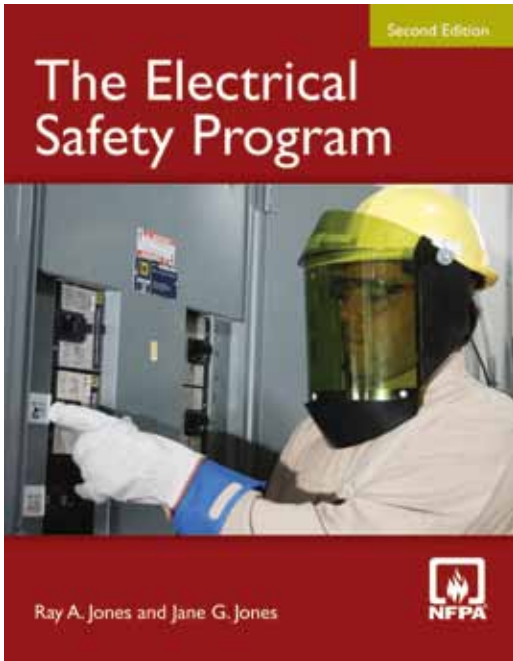
This *Second Edition* text covers electrical safety requirements and safety-related work practices of OSHA and the National Fire Protection Association electrical safety in the workplace code, NFPA 70E®. Specific topics include electrical safety culture, hazard awareness, design considerations, electrical safety program, training, calculation of short-circuit currents, arc flash hazard analysis methods, personal protective equipment, and equipment maintenance. Chapters explore calculations required to comply with NFPA 70E®, and techniques that can be applied to significantly reduce or eliminate electrical hazards. Each chapter includes two real-life case studies and recommendations for how these incidents could have been avoided. A must for electrical safety professionals, instructors, students, electrical workers, and contractors.

### Key Features

- Opening Case begins each chapter with an official National Institute for Occupational Safety and Health Fatality Assessment and Control Evaluation (FACE) case study.
- 70E Highlights emphasize important points of excerpts from NFPA 70E.

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## The Electrical Safety Program

### Second Edition

**Ray A. Jones**  
**Jane G. Jones**

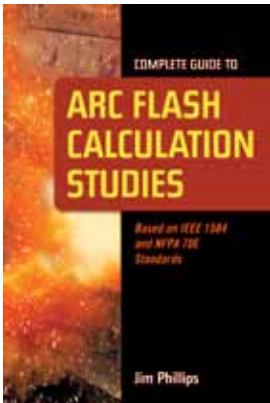
*The Electrical Safety Program Book, Second Edition* provides a detailed blueprint for establishing a plan that maximizes electrical safety on the jobsite. Written by electrical safety experts Ray A. Jones and Jane G. Jones, this essential resource is based on NFPA 70E® 2009 Edition and current OSHA regulations. Beginning with the history and development of electrical codes, standards, and regulations the text explains the development of an electrical safety program from conception through finalization for a comprehensive plan that is tailored to a company's unique environment. Extensive appendices for each chapter include a wealth of practical and time-saving tools such as checklists, sample budgets, a personal protective equipment matrix, and permits. In addition, a CD-ROM is included with all checklists and forms from the book.

### Key Features

- Provides special aides including assessment checklists, forms, and helpful tables
- Incorporates an energized work permit that helps management understand the relationship of electrical hazard exposure to the work process
- Includes coverage of sample lockout/tagout procedures that readers can modify and use directly
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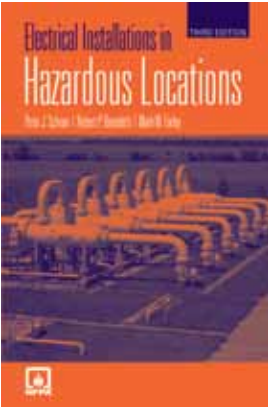
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*Based on IEEE 1584 and NFPA 70E® Standards*

**Jim Phillips**

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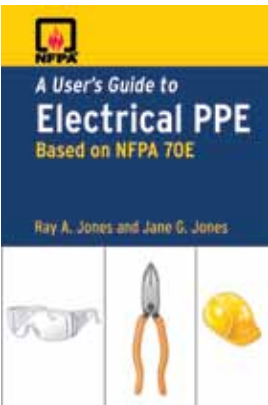
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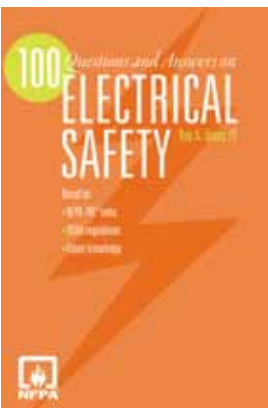


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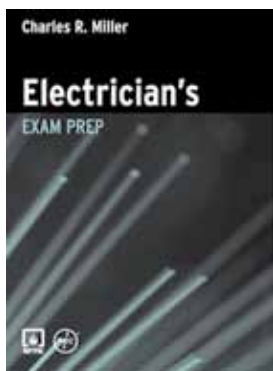


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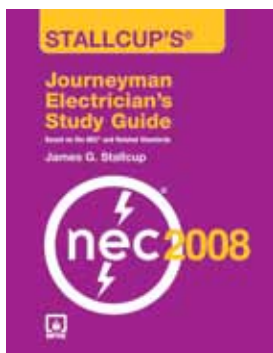


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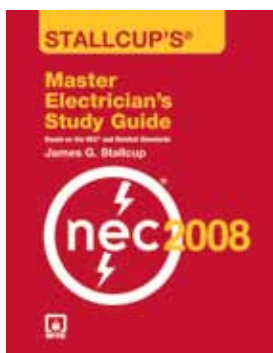
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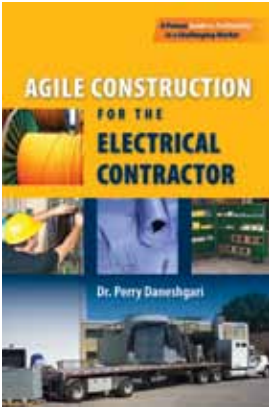
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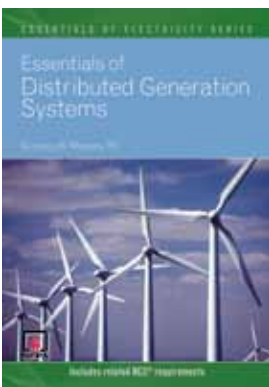
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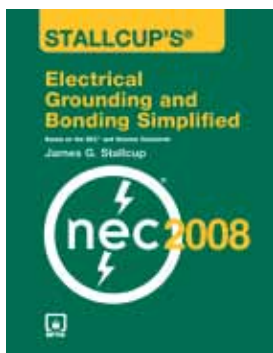


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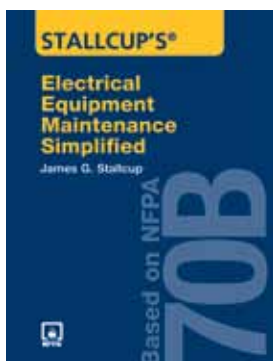
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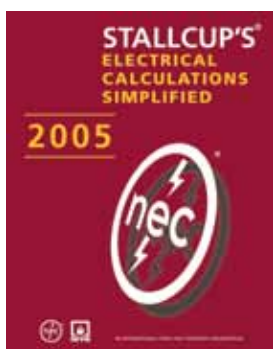
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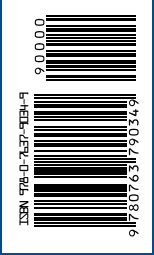
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