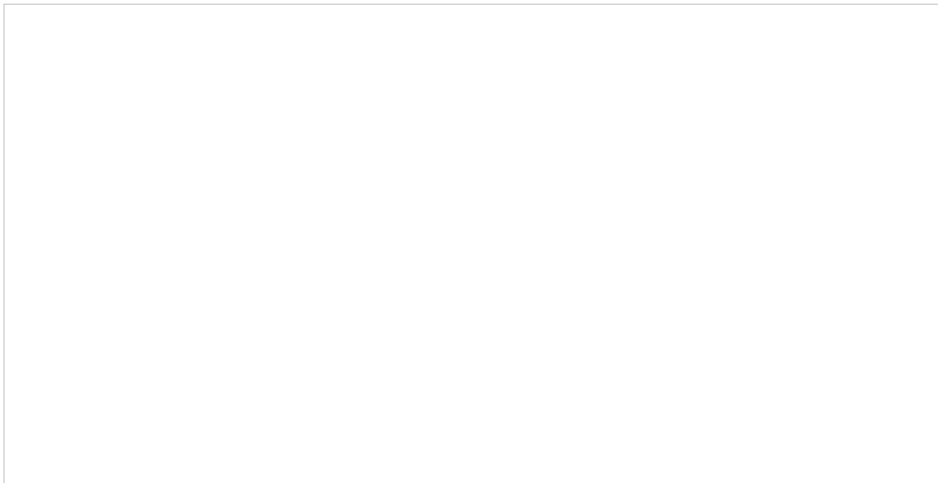


# [PDF] Practical Electrical Wiring: Residential, Farm And Industrial

H.P. RICHTER, W.Creighton Schwan - pdf download  
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## Description:

**Review** "Each revision of Practical Electrical Wiring aims to educate beginners in the field, yet stimulate those already engaged in electrical work. And, the 16th edition, which conforms to the 1993 NEC, is no different." -- *Electrical Apparatus, 5/93* --This text refers to an out of print or unavailable edition of this title.

**From the Publisher** In this completely new version of Practical Electrical Wiring, the entire text has been updated and reorganized by NEC expert Frederic P. Hartwell. He has added vast amounts of new material to meet the requirements of the increased

specialization of the electrical trade over the last several years.

Intended audience Practical Electrical Wiring is aimed at the person who wants to make a serious study of the field of electrical wiring—practitioners, students and apprentices, seekers of information about careers in the electrical industry, and general readers who want to learn the basics of the trade in order to do things right and become aware of what they don't know so they can make a considered decision about how to proceed.

Guide to using this book Practical Electrical Wiring covers all phases of a wiring installation—beginning with the necessary background theory and principles and on to the planning, installing, and finishing of residential, farm, commercial, and industrial jobs. Readers of previous editions will note a more advanced level of discussion reflecting the greater technical complexities of today. All new drawings and illustrations plus a new page design make instructions easier to follow and understand.

To help you progress in your knowledge and skills, the book is divided into three parts—Wiring Principles; Residential and Farm Wiring; Commercial and Industrial Wiring. All three parts feature step-by-step instructions for quality work, with 475 drawings and photographs to enhance understanding.

Part 1, **WIRING PRINCIPLES**, provides the basic foundation for the parts that follow—the safety, practical, and legal considerations involved in wiring decisions and practices. This is essential reading before undertaking any electrical work. The standards and codes that help ensure safety are explained. Selecting proper conductors and how to connect them is covered in detail, followed by how to safely ground the installation. Specific wiring methods and their latest NEC rules are detailed. The explanation of how electrical power is measured and delivered to users connects your installation to the broader picture and helps in understanding regional variations in electric rates. Chapters on planning residential installations, principles of good lighting, and an overview of residential and farm motors conclude Part 1. The principles and theory presented in Part 1 provide the background that can be applied to solving problems that may be encountered in unique situations.

Part 2, **RESIDENTIAL AND FARM WIRING**, puts the principles established in Part 1 to work in the kind of wiring installations most commonly encountered in homes and on farms. Materials and step-by-step techniques are covered for every phase of the installation from installing and grounding service equipment, to roughing in a variety of outlets, and finishing with outlets, switches, and receptacles. Separate chapters cover specialized topics including limited-energy wiring, multi-circuits, old work, farms, on-site power generation, RVs and parks, and apartment buildings.

Part 3, **COMMERCIAL AND INDUSTRIAL WIRING**, opens with Hartwell's unique approach to understanding one of the primary responsibilities in the electrical trade—selecting the minimum allowable size of wire for a given load. This chapter is followed by discussions of how wiring methods, planning, and lighting differ for nonresidential installations compared with the residential and farm installations covered earlier in the book. The chapter on the wiring of motors in commercial and industrial applications (at not over 600 volts) builds on the motor basics provided in Part 1. The final chapter gives a preview of more advanced work in wiring specific installations that should be undertaken only by those who have had much experience with more ordinary installations detailed in Parts 1 and 2, or who have received expert training on installations similar to those in this chapter. --This text refers to an out of print or unavailable edition of this title.

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