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Joseph F. McPartland is the nation's foremost expert on electrical system design and construction. He is the principal author of McGraw-Hill's National Electrical Code Handbook, now in its 23rd edition, as well as 28 other books on electrical design, electrical construction methods, electrical equipment, and the NEC.

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Joseph F. McPartland is the nation's foremost expert on electrical system design and construction. He is the principal author of McGraw-Hill's National Electrical Code Handbook, now in its 23rd edition, as well as 28 other books on electrical design, electrical construction methods, electrical equipment, and the NEC.

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Handbook of Practical Electrical Design. by. Joseph F. McPartland, Brian J. McPartland. 4.25 · Rating details · 8 ratings · 0 reviews. The authors provide techniques on designing electrical systems for any building or facility, including how-to's on the circuits and systems that supply electrical power for lighting, heating, motors, and other power loads and controls in industrial, commercial and residential settings.

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**Handbook of Practical Electrical Design by McPartland, J.F.---**

Brian J. McPartland is the author of McGraw-Hill National Electrical Code Handbook (3.00 avg rating, 2 ratings, 0 reviews, published 2008), McGraw-Hill's...

Fully updated to reflect the 1999 NEC®, this new edition provides today's most comprehensive and unified coverage of electrical design. Organized to follow the stages of a typical electrical design job, it clearly explains all facets of electrical design and all the latest practical procedures, practices, and trends involved in the design of electrical systems in commercial, industrial, institutional, and residential occupancies. This illustrated resource features step-by-step details on how to size, select, and apply conductors, raceways, switches, fuses, and all other related system components. It also presents information in a manner that makes it easy for designers to prepare plans and electrical specifications for installers. Packed with design examples and practical pointers, this timesaving and moneysaving new edition of the Handbook addresses all the everyday needs of today's electrical designers.

The only book of its kind on the market today, this invaluable handbook gives you every essential calculation used in day-to-day electrical construction work - for wiring ... lighting and appliance branch circuits ... feeders for power and light ... motor circuits ... and transformers. With more than 350 detailed illustrations, this updated handbook will enable anyone involved in the electrical construction industry to determine the most efficient and cost-effective approach to the design, layout, installation, operation, and maintenance of electric circuits, systems, and equipment.

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THE BEST CODE REFERENCE IN PRINT Completely updated to cover 2002 provisions, the reference you hold in your hands is the most frequently consulted NEC(R) guidebook in the world. This indispensable, authoritative source of Code(R) how-to's, interpretation, and advice, gives you: - Code(R) analysis and application help from Joseph F. McPartland ("Mr. Electrical Construction") and his son Brian J. McPartland, famous nationwide for his Code(R) seminars - More hands-on, how-to information than other any other source--without the unnecessary word-for-word reproduction of the entire Code(R) itself - The most lavish available offering of task-simplifying photographs and drawings, to make every procedure crystal clear - Detailed, useful coverage of difficult and controversial rules, from foremost electrical construction industry experts - The coverage you want and need of new provisions on telecommunications wiring - Best value--because every page of every section gives you 100% applicable Code(R) interpretation and advice THE LEADER SINCE 1932 Edition after popular edition, McGraw-Hill's National Electrical Code(R) Handbook has provided the essential, put-the-Code(R)-into-practice guide. No wonder it's been the leading reference on the NEC(R) for nearly 70 years!

This guide empowers small teams with systems engineering techniques that once were the exclusive domain of large organizations employing hundreds of engineers to develop complex, tightly integrated systems designs.

Now you can achieve optimum performance and efficiency in the design of electric systems for virtually any size or type of building or industrial facility utilizing the state-of-the-art methodologies detailed in this comprehensive handbook. Step-by-step guidelines take you through each phase of design, covering equipment selection, power distribution system analysis, conduit and conductor sizing, lighting system design, control systems, electronic instrumentation, protective relaying, energy management systems, power quality, variable speed drives, motor selection, and more. The latest codes (NEC 2008) as well as currently available equipment are referenced. Numerous examples and simulation exercises are included, along with detailed design examples. Fully illustrated with many useful diagrams and tables, this book is a practical guide for electrical engineers, plant and facility engineers, and other professionals responsible for implementing or overseeing the design of facility electrical systems.

The book aims to showcase the basics of both IoT and Blockchain for beginners as well as their integration and challenge discussions for existing practitioner. It aims to develop understanding of the role of blockchain in fostering security. The objective of this book is to initiate conversations among technologists, engineers, scientists, and clinicians to synergize their efforts in producing low-cost, high-performance, highly efficient, deployable IoT systems. It presents a stepwise discussion, exhaustive literature survey, rigorous experimental analysis and discussions to demonstrate the usage of blockchain technology for securing communications. The book evaluates, investigate, analyze and outline a set of security challenges that needs to be addressed in the near future. The book is designed to be the first reference choice at research and development centers, academic institutions, university libraries and any institutions interested in exploring blockchain. UG/PG students, PhD Scholars of this fields, industry technologists, young entrepreneurs and researchers working in the field of blockchain technology are the primary audience of this book.

This new edition of the definitive arc flash reference guide, fully updated to align with the IEEE's updated hazard calculations An arc flash, an electrical breakdown of the resistance of air resulting in an electric arc, can cause substantial damage, fire, injury, or loss of life. Professionals involved in the design, operation, or maintenance of electric power systems require thorough and up-to-date knowledge of arc flash safety and prevention methods. Arc Flash Hazard Analysis and Mitigation is the most comprehensive reference guide available on all aspects of arc flash hazard calculations, protective current technologies, and worker safety in electrical environments. Detailed chapters cover protective relaying, unit protection systems, arc-resistant equipment, arc flash analyses in DC systems, and many more critical topics. Now in its second edition, this industry-standard resource contains fully revised material throughout, including a new chapter on calculation procedures conforming to the latest IEEE Guide 1584. Updated methodology and equations are complemented by new practical examples and case studies. Expanded topics include risk assessment, electrode configuration, the impact of system grounding, electrical safety in workplaces, and short-circuit currents. Written by a leading authority with more than three decades' experience conducting power system analyses, this invaluable guide. Provides the latest methodologies for flash arc hazard analysis as well practical mitigation techniques, fully aligned with the updated IEEE Guide for Performing Arc-Flash Hazard Calculations Explores an inclusive range of current technologies and strategies for arc flash mitigation Covers calculations of short-circuits, protective relaying, and varied electrical system configurations in industrial power systems Addresses differential relays, arc flash sensing relays, protective relaying coordination, current transformer operation and saturation, and more Includes review questions and references at the end of each chapter Part of the market-leading IEEE Series on Power Engineering, the second edition of Arc Flash Hazard Analysis and Mitigation remains essential reading for all electrical engineers and consulting engineers.

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