

ASCE Manuals and Reports on Engineering Practice No. 113

Substation Structure Design Guide

Second Edition



Recommended Practice for Design and Use

Task Committee on Substation Structure Design

Edited by George T. Watson, P.E.



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Mark Steyvers



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OF UNDERGROUND ELECTRIC SUPPLY AND COMMUNICATION LINES Underground circuit systems supply cable cable in underground structures direct buried cable cable in duct risers terminations equipment installation in tunnels WORK RULES FOR THE OPERATION OF ELECTRIC SUPPLY AND COMMUNICATIONS LINES AND EQUIPMENT Employer and employee rules OSHA requirements **McGraw Hill's National Electrical Safety Code (NESC) 2023 Handbook** David J. Marne, John A. Palmer, 2023-02-04 Up to date rule by rule clarification of the requirements in the 2023 NESC Designed to be used alongside the code itself McGraw Hill's National Electrical Safety Code NESC 2023 Handbook has been fully updated to reflect the changes in the 2023 NESC You will gain access to straightforward ready to apply code clarification enabling you to work safely and efficiently and achieve full compliance The book offers concise summaries of complicated and confusing issues as well as hundreds of diagrams photos and practical examples COVERAGE INCLUDES General Sections Introduction definitions references grounding methods Safety Rules for the Installation and Maintenance of Electric Supply Stations and Equipment Purpose and scope protective arrangements installation and maintenance rotating equipment storage batteries transformers and regulators conductors circuit breakers and other equipment switchgear photovoltaic generating stations Safety Rules for the Installation and Maintenance of Overhead Electric Supply and Communication Lines Purpose and scope general requirements classes of lines and equipment clearances grades of construction structural loadings strength requirements line insulation Safety Rules for the Installation and Maintenance of Underground Electric Supply and Communication Lines Purpose and scope general requirements underground conduit systems supply cable cable in underground structures direct buried cable and cable in duct risers terminations equipment installation in tunnels Work Rules for the Operation of Electric Supply and Communication Lines and Equipment Purpose and scope employer rules employee rules additional rules for communication employees additional rules for supply employees *Electrical Transmission in a New Age* Dan E. Jackman, 2002 This collection contains 46 papers discussing electrical transmission line engineering presented at the Electrical Transmission in a New Age Conference held in Omaha Nebraska on September 9 12 2002 **McGraw-Hill's National Electrical Safety Code 2017 Handbook 4E (PB)** David J. Marne, 2016-10-20 Achieve full 2017 NESC compliance with this hands on guide McGraw Hill's National Electrical Safety Code NESC 2017 Handbook thoroughly explains how to apply and meet the NESC rules for electric supply stations and equipment as well as overhead and underground electric supply and communications lines Designed to be used alongside the Code itself this comprehensive resource has been fully updated to reflect the record number of change proposals for the 2017 NESC Focusing on practical application of the 2017 Code this Handbook delivers a rule by rule annotation of the NESC that clarifies potentially confusing Code text and allows you to perform your work safely and confidently Hundreds of diagrams photos and practical examples make this the most complete and useful handbook available on the topic COVERAGE INCLUDES General Sections Application Definitions Grounding Methods Safety Rules for the Installation and Maintenance of Electric Supply Stations and

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