

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.

ASCE



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Substation Structure Design Guide Leon Kempner, 2008 MOP 113 provides a comprehensive resource for the structural design of outdoor electrical substation structures *Electric Power Substations Engineering* John D. McDonald, 2016-04-19 Combining select chapters from Grigsby's standard setting *The Electric Power Engineering Handbook* with several chapters not found in the original work *Electric Power Substations Engineering* became widely popular for its comprehensive tutorial style treatment of the theory design analysis operation and protection of power substations For its Electric Power Substations Engineering, Third Edition John D. McDonald, 2012-05-16 The use of electric power substations in generation transmission and distribution remains one of the most challenging and exciting areas of electric power engineering Recent technological developments have had a tremendous impact on all aspects of substation design and operation With 80% of its chapters completely revised and two brand new chapters on energy storage and Smart Grids *Electric Power Substations Engineering Third Edition* provides an extensive updated overview of substations serving as a reference and guide for both industry and academia Contributors have written each chapter with detailed design information for electric power engineering professionals and other engineering professionals e.g. mechanical civil who want an overview or specific information on this challenging and important area This book Emphasizes the practical application of the technology Includes extensive use of graphics and photographs to visually convey the book's concepts Provides applicable IEEE industry standards in each chapter Is written by industry experts who have an average of 25 to 30 years of industry experience Presents a new chapter addressing the key role of the substation in Smart Grids Editor John McDonald and this very impressive group of contributors cover all aspects of substations from the initial concept through design automation and operation The book's chapters which delve into physical and cyber security commissioning and energy storage are written as tutorials and provide references for further reading and study As with the other volumes in the *Electric Power Engineering Handbook* series this book supplies a high level of detail and more importantly a tutorial style of writing and use of photographs and graphics to help the reader understand the material Several chapter authors are members of the IEEE Power Energy Society PES Substations Committee and are the actual experts who are developing the standards that govern all aspects of substations As a result this book contains the most recent technological developments in industry practice and standards Watch John D McDonald talk about his book A volume in the *Electric Power Engineering Handbook Third Edition* Other volumes in the set K12642 *Electric Power Generation Transmission and Distribution Third Edition* ISBN 9781439856284 K12648 *Power Systems Third Edition* ISBN 9781439856338 K13917 *Power System Stability and Control Third Edition* ISBN 9781439883204 K12643 *Electric Power Transformer Engineering Third Edition* ISBN 9781439856291

Design of Electrical Transmission Lines Sriram Kalaga, Prasad Yenumula, 2016-12-19 This book covers structural and foundation systems used in high voltage transmission lines conductors insulators hardware and component assembly In most

developing countries the term transmission structures usually means lattice steel towers The term actually includes a vast range of structural systems and configurations of various materials such as wood steel concrete and composites This book discusses those systems along with associated topics such as structure functions and configurations load cases for design analysis techniques structure and foundation modeling design deliverables and latest advances in the field In the foundations section theories related to direct embedment drilled shafts spread foundations and anchors are discussed in detail Featuring worked out design problems for students the book is aimed at students practicing engineers researchers and academics It contains beneficial information for those involved in the design and maintenance of transmission line structures and foundations For those in academia it will be an adequate text book design guide for graduate level courses on the topic Engineers and managers at utilities and electrical corporations will find the book a useful reference at work NEHRP Recommended Provisions for Seismic Regulations for New Buildings and Other Structures , *NEHRP Recommended Provisions (National Earthquake Hazards Reduction Program) for Seismic Regulations for New Buildings and Other Structures: Provisions* ,1998 NEHRP Recommended Provisions for Seismic Regulations for New Buildings and Other Structures, Part 2 - Commentary, 2000 Edition, March 2001 ,2001 *ASCE Manuals and Reports on Engineering Practice* ,1999 Substation Structure Design Guide George T. Watson,2023 MOP 113 second edition documents electrical substation structural design practice and gives guidance and recommendations for the design of outdoor electrical substation structures *NEHRP Recommended Provisions (National Earthquake Hazards Reduction Program) for Seismic Regulations for New Buildings and Other Structures* ,2001

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