1. Record Nr. UNINA9910456221403321

Titolo	Electrical transmission and substation structures [[electronic resource]] : technology for the next generation : proceedings of the 2009 Electrical Transmission and Substation Structures Conference, November 8-12, 2009 Fort Worth, Texas / / sponsored by Electrical Transmission Structures Committee of the Structural Engineering Institute (SEI) of the American Society of Civil Engineers ; edited by Marlon W. Vogt
Pubbl/distr/stampa	Reston, Va., : American Society of Civil Engineers, 2010
ISBN	0-7844-7320-X
Descrizione fisica	1 online resource (531 p.)
Altri autori (Persone)	VogtMarlon W
Disciplina	621.31922
Soggetti	Electric lines - Poles and towers - Design and construction Structural engineering Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	""Cover""; ""Table of Contents""; ""Loading I""; ""Are Wood Poles Getting Weaker?""; ""The Chaotic Confusion Surrounding a€œWood Equivalenta €? Non-Wood Poles""; ""Estimation of Containment Loads on a 230kV Steel Transmission Line Using Finite Element Model""; ""Common Sag and Tension Errors: Ita€?s Time for Template Technology to be Put in the Drawer Forever""; ""Analysis and Design I""; ""Laboratory and Field Testing of Steel Davit Arm Fatigue Failures on Concrete Poles""; ""Lessons Learned from Design and Test of Latticed Steel Transmission Towers""; ""Lessons Learned on Mega Projects"" ""345 kV High Ampacity OH/UG Project""""Foundations""; ""Integration of Optimum, High Voltage Transmission Line Foundations""; ""Geotechnical Investigations for a Transmission Line Are More Than Drilled Borings""; ""Transmission Pole Foundations: Alternate Design Methods for Direct-Embedded Round, Wood Transmission Poles""; ""Assessment and Repair of Steel Tower and Steel Pole Foundations""; ""Substation Design""; ""Substation Bus Design: Current Methods Compared with Field Results""; ""3D Automated Design of Substations"";

""Seismic Design of Substation Structures""

""Analytical Techniques to Reduce Magnetic Force from High Fault Current on Rigid Bus""""""Loading II""; ""Wind Loading: Uncertainties and Honesty Suggest Simplification""; ""Review of Span and Gust Factors for Transmission Line Design""; ""Wind Load Methodologies for Transmission Line Towers and Conductors""; ""The Effects of Ice Shedding on a 500 kV Line""; ""Analysis and Design II""; ""Fact or Fictiona€?Weathering Steel Can Provide Effective Corrosion Protection to Steel Structures""; ""Large Catenary Structures for High Voltage Transmission Lines""

""Aesthetic Mitigationa€?The Challenge Confronting Future Expansion of Transmission Lines""""""Alabama Power Increases Line Capacity Using 3M ACCR Conductor (On Existing Towers)""; ""Case Studiesa€? Foundations""; ""Golden Pass LNG 230kV Double Circuit: Foundations""; ""Deepwater Transmission Line Foundations Meet Trophy Bass Lake Environment""; ""230kV Lattice Tower Replacement: An Example of Design Loading Not Addressed in the NESC""; ""Design and Construction Challenges of Overhead Transmission Line Foundations (NUa€?s Middletown Norwalk Project)""; ""Case Studiesa€?Construction Challenges""

""Transmission Line Construction in Sub-Arctic Alaska Case Study: a €œGolden Valley Electric Associationa€?s 230kV Northern Intertiea€?"""""" The 2008 Iowa Floods: Structural Challenges and Solutions""; ""Transmission Line at St. Andrew Bay""; ""Construction Challenges of Extra High Voltage Transmission Lines: Building in the Most Difficult Terrain in the World""; ""Applied Technologies""; ""Vegetation Management Through LiDAR Derived CADD Models: Compliance with NERC Reliability Standard FAC-003-1""; ""Sequential Mechanical Testing of Conductor Designs""

""H2S Entrapment and Corrosion on Direct Embedded Galvanized Steel Transmission Poles""