

Stallcup S Electrical Design 2008 Edition

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the best electrical design practices change with every edition of the national electrical code stallcup s electrical design book expertly explains these changes and how they apply to the design and installation of electrical wiring systems strategically designed the large workbook format provides valuable design tips nec loops examples quick calculations and effective illustrations with code references descriptions of common industry problems and rule of thumb methods for fast and accurate design practices are provided chapter quizzes test user s knowledge and can be used as a valuable license preparation tool with the abundant amount of detailed information provided stallcup s is the most comprehensive design book of its kind

this book presents an innovative concept for designing a 400 kv double circuit composite tower the major challenges encountered by the authors in the electrical design process of the composite tower are addressed they concern material selection for the full composite cross arm core electrical insulation of the cross arm electrical dimensioning of the full composite tower lightning shielding performance and failure of the full composite tower the electric field performance of the tower s insulation has been investigated theoretically by using finite element method and experimentally by testing different fiber reinforced polymers as candidates the book reports in detail those finite element simulations and tests together with the authors recommendations on the most suitable materials and manufacturing process as well as conductor clamp designs for the cross arm another important issue of the full composite tower which concerns the environmental aspects of the full composite tower has also been evaluated this book offers a timely reference guide on a highly innovative topic addressing researchers working on power transmission system both in industry and academia

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