

A Comprehensive Research of Structural Analysis and its Effects on Electrical Systems

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Abstract

The integration of structural analysis and electrical systems is crucial for ensuring the safety, reliability, and optimal performance of various engineering applications. This research article presents a comprehensive review of the relationship between structural analysis and electricity, highlighting the significance of their interplay in diverse felds such as civil engineering, aerospace engineering, and power transmission systems. The article explores the role of structural analysis in assessing the behavior of materials and structures under electrical loads, as well as the infuence of electrical systems on the structural integrity of infrastructures. Additionally, emerging technologies and future prospects for the combined application of structural analysis and electricity are discussed.

Introduction

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