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AMERICAN SOCIETY OF CIVIL ENGINEERS

# 美国土木工程学会介绍

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- 成立于1852年，是美国历史最悠久的工程学会。
- 在177个国家拥有超过15万名会员。
- 在规划、设计、建造、建筑环境以及保护和恢复自然环境等领域处于行业前沿。
- 技术和专业会议及继续教育提供商，世界上最大的土木工程内容出版商，以及保护公众的规范和标准的权威来源。
- 通过9个研究所发展土木工程技术专业，并在许多专业和公共重点项目中处于领先地位。

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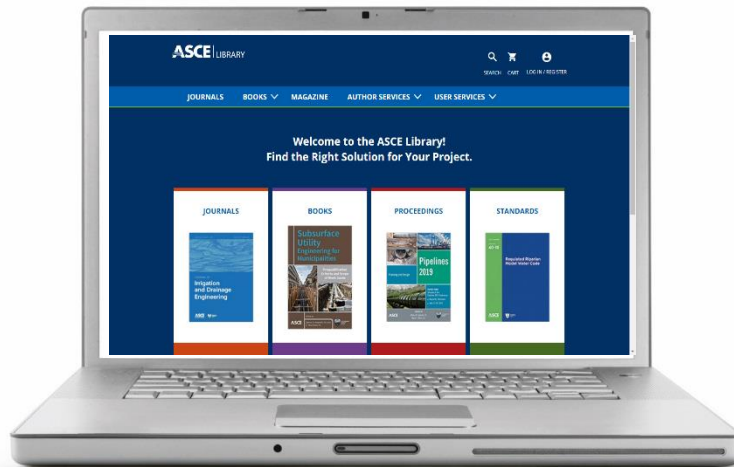
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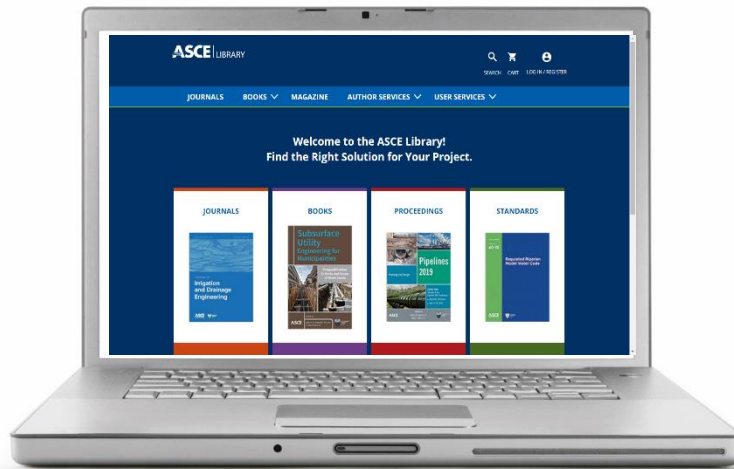


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- 体裁有：技术报告、名人传记、历史纪实、经验总结、操作指南、职场策略、会议录和电子书的投稿指南。



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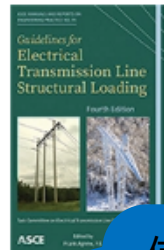
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Task Committee on Electrical Transmission Line Structural Loading Edited by Frank W. Agnew, P.E.  
Fourth Edition · MOP 74 · 2020

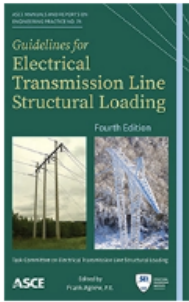
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Construction Committee; Edited by Zhichao Lai, Amit H. Varma, and Erica Fischer

2020



# Guidelines for Electrical Transmission Line Structural Loading

Task Committee on Electrical Transmission Lines, Inc. by Frank W. Agnew, P.E.  
MOP 74 | Fourth Edition | ISBN 978-0-7844-8308-4

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电子书摘要

## Abstract

Prepared by the Task Committee on Electrical Transmission Lines, Inc. of the American Society of Civil Engineers, the Structural Engineering Institute of ASCE.

Fully revised and updated, *Guidelines for Electrical Transmission Line Structural Loading* provides a loading philosophy for electrical transmission lines applied to an individual project or at a regional level.

Key topics addressed in this manual are

- Uniform procedures and definitions used in the industry for the calculation of loads,
- Design procedures addressing uniform levels of reliability for transmission lines,
- Procedures for calculating design loads and determining their corresponding load factors,

DETAILS RELATED

Task Committee on Electrical Transmission Line Structural Loading

Edited by Frank W. Agnew, P.E.

<https://doi.org/10.1061/9780784415566>

ASCE Subject Headings: System reliability, Terminology and definition, Power transmission lines, Structural engineering, Power transmission, Industries, Project management, Load factors

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#### Chapter 2 Weather-Related Loads

pp. 19 - 68

##### Abstract

This chapter discusses weather-related loads on transmission line structures and wires. These loads are associated with wind, or a combination of ice and wind, referred to as ice with concurrent wind. Specific aspects include wind loading, high-intensity winds (HIWs), and ice and wind loading. The wind force calculation is based on the selection of appropriate values of wind speed, wind pressure exposure coefficient, gust response factor, and force coefficient. The gust response factor accounts for the dynamic effects, as well as the correlation of gusts with the wind response of transmission line components. The wind speeds that transmission line structures experience can be significantly influenced by topography. Analyses of line failures in several countries have identified HIW events as the leading cause of transmission line failures. In addition to imposing substantial vertical loads on the structural system, the ice buildup on the wires and conductors presents a greater projected area exposed to wind.

<https://doi.org/10.1061/9780784415566.ch02>

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## Chapter 2 Weather-Related Loads

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### Abstract

This chapter discusses the design of transmission line structures and wires subjected to wind, ice, or a combination of ice and wind, referred to as weather-related loads. Specific aspects include wind loading, high intensity winds (HIWs), and ice and wind loading. The wind force calculation is based on the selection of appropriate values of wind speed, wind pressure exposure coefficient, gust response factor, and force coefficient. The gust response factor accounts for the dynamic effects, as well as the correlation of gusts with the wind response of transmission line components. The wind speeds that transmission line structures experience can be significantly influenced by topography. Analyses of line failures in several countries have identified HIW events as the leading cause of transmission line failures. In addition to imposing substantial vertical loads on the structural system, the ice buildup on the wires and conductors presents a greater projected area exposed to wind.

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