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Staircases is divided into five chapters: Specifications and basic data on staircases; Structural analysis of staircases - Classical methods; Structural analysis of staircases - Modern methods; Staircases and their analysis - A comparative study; Design analysis and structural detailing. Charts and graphs are included and numerous design examples are given of freestanding and other geometric staircases and of their elements and components.

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Staircase Analysis and Design Spreadsheet. Staircases provide means of movement from one floor to another in a structure. Staircases consist of a number of steps with landings at suitable intervals to provide comfort and safety for the users. Types of Stairs For purpose of design, stairs are classified into two types; transversely, and longitudinally supported.

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Free standing staircase structures are complex in analysis and design, but with finite element analysis packages, simple solutions can be easily obtained as shown in this post. In this post, we are going to compare the results obtained with Staad Pro software with result from manual analysis using the method proposed on Table 175, Reynolds and Steedman, 2005 .

Structural Analysis of Free Standing Staircase: A ...
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How to draw a detailed stair plan: 1. Number each of the steps starting from the lowest 2. Indicate all the dimensions like tread widths & depths, total length & width of the stair, balustrade details etc. 3. Specify all the different types of materials.

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In recent years both free-standing and geometric staircases have become quite popular. Many variations exist, such as spiral, helical, and elliptical staircases, and combinations of these. A number of researchers have come forward with different concepts in the fields of analytical and numerical design and of experimental methods and assessments.

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This definitive reference volume provides a comprehensive guide to the analysis and design of bridge structures worldwide. The in-depth consideration given to the major analytical, numerical and design issues associated with prototype structures will reduce the effort and expense involved in future construction. The book contains numerous analytical and design examples drawn from existing structures worldwide as well as an extensive bibliography and a large appendix which covers background analyses and computer subroutines.

This edited volume brings together findings and case studies on fundamental and applied aspects of structural engineering, applied to buildings, bridges and infrastructures in general. It focuses on the application of advanced experimental and numerical techniques and new technologies to the built environment. This volume is part of the proceedings of the 1st GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt 2017.

The first theoretical, historical, and scientific analysis of one of the most basic and universal building elements: the stair.

- Acknowledgements - Metric conversions - Definitions - Introduction to codes - List of comparative symbols - Introduction - Structural steel - Draughting practice for detailers - Bolts and bolted joints - Welding - Design detailing of major steel components - Steel buildings - case studies - Steel bridges - case studies - Appendix. Section properties - Bibliography - British Standards and other standards - ASTM Standards