



# Coasters 101: An Engineer's Guide to Roller Coaster Design

By Nick Weisenberger



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Have you ever wondered what it takes to design and build a roller coaster? At last, there's a book that shows you. A mix of engineering and art, roller coasters are complex three-dimensional puzzles consisting of thousands of individual parts. Designers spend countless hours creating and tweaking ride paths to push the envelope of exhilaration, all while maintaining the highest safety standards. *Coasters 101: An Engineer's Guide to Roller Coaster Design* examines the numerous diverse aspects of roller coaster engineering, including some of the mathematical formulas and engineering concepts used.

A few of the topics covered include:

- Design Software and Computer Technology
- Project Management
- Wheel Design and Material Selection
- Track Fabrication Techniques
- Daily Inspections and Preventive Maintenance
- Amusement Industry Safety Standards
- Career Advice
- And much more!

This technical guide is the most detailed roller coaster design book to date and will take you through the entire process, from concept to creation. A must read for every enthusiast and aspiring roller coaster engineer!

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