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

Nick Weisenberger

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Nick Weisenberger : Coasters 101: An Engineer's Guide to Roller Coaster Design before purchasing it in order to gage whether or not it would be worth my time, and all praised Coasters 101: An Engineer's Guide to Roller Coaster Design:

5 of 5 people found the following review helpful. Gave me more reasons to appreciate roller coastersBy J. ShakesPersonally I don't particularly enjoy roller coasters, but my 11-year-old son decided to take a class that introduces him to physics by studying how to design roller coasters. So I bought this book to help him get ready for

the class. Then I started reading it and discovered ... designing coasters has a lot of complexities I had not previously appreciated. So I quickly got drawn into the book and finished it. It's not a long read, but it does the trick to explain why coaster engineering could be a great job. The book will make me enjoy attending theme parks more in the future (that is, when I succumb to family pressure and attend them despite my preference to spend my vacation in other ways). The book could be improved by adding more depth to the sections that briefly list non-traditional-engineering aspects of designing, building, and operating coasters, such as the management and economics of the theme park, psychology of what makes different kinds of movements more or less exciting, set and lighting design, or advances in technology that could make future coasters a hybrid of physical engineering and interactive computer-controlled multi-media. The book is at the edge of what a quantitatively-oriented middle-school kid would appreciate; you can get a lot out of the book without being able to fully follow the math equations that show up occasionally in the text.

2 of 2 people found the following review helpful. Informative
By Steven M. There's a lot of books about how coasters are fun, and if you're here, that's probably something you've figured out on your own. There's also a lot of books about which ones are the most extreme, which is probably something better explored on Youtube. This one goes a step beyond and has everything you might want to know about how they work, and what's actually happening. It gets very technical.

0 of 0 people found the following review helpful. For the love of Coasters!
By Tater I just love this book! I have a passion for all things rollercoaster and love learning all that goes into the design of them and everything! Thank you to the author for writing a book that is also easy to read, fun and very informative!

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 Engineering 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!

"I thought it was great. It was a good first look at roller coaster design. It also gave great information and details about roller coasters in general." -Goodreads
About the Author
Nick Weisenberger graduated from the University of Toledo, in Toledo, Ohio, with a Bachelor's degree in Mechanical Engineering. One of his favorite activities is visiting amusement parks. You can read more about his adventures at www.coaster101.com. Nick currently works as an engineer and resides with his wife near Columbus, Ohio.