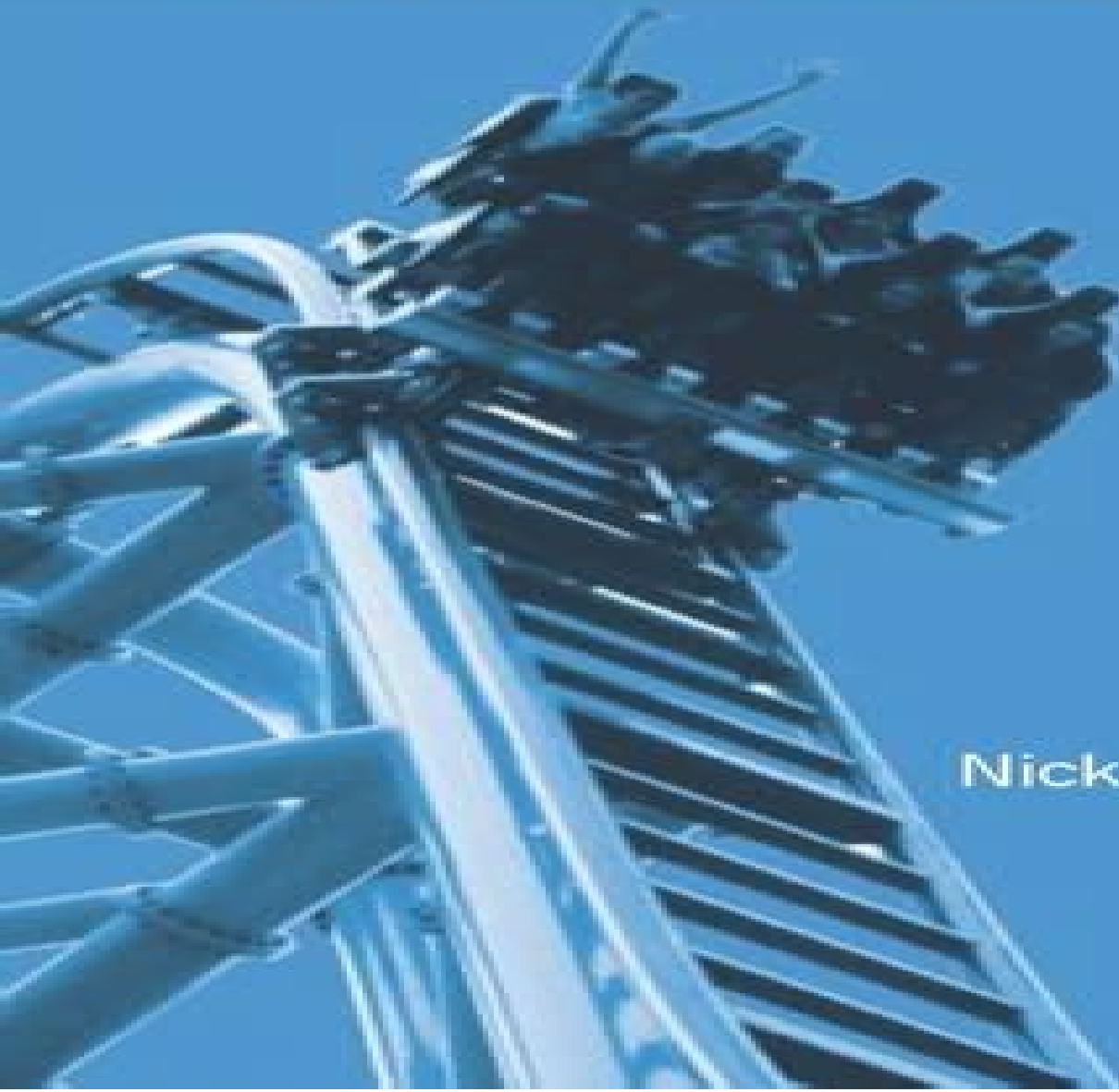


Coasters 101

An Engineer's Guide to Roller Coaster Design



Nick Weisenberger

Coasters 101 An Engineers Guide To Roller Coaster Design

Nick Weisenberger



Coasters 101 An Engineers Guide To Roller Coaster Design:

Coasters 101 Nick Weisenberger, 2012 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 **The 50 Most Unique Roller Coasters Ever Built** Nick

Weisenberger, 2015-02-19 **50 Legendary Roller Coasters That No Longer Exist** Nick Weisenberger, 2016-04-19 If you could resurrect any deceased roller coaster which one would it be There are currently over 4 000 operating roller coasters on the planet today But did you know there have also been well over 3 000 coasters built throughout history that no longer exist Countless historic scream machines are nameless long since forgotten having left no proof of ever terrorizing its riders not even a photograph While others even after a hundred years are still praised with regard and reverence If a roller coaster is legendary why is it torn down and removed in the first place If it was such a special ride why does it no longer exist **50 LEGENDARY ROLLER COASTERS THAT NO LONGER EXIST** explains what goes into the tough decision to remove a multi million dollar attraction and which roller coasters in history were the most notorious [101 Facts About Roller Coasters For Kids](#) Nick Weisenberger, 2024-11-14 Ready to dive into the wild world of roller coasters **101 Facts About Roller Coasters for Kids** is your ticket to discovering the most thrilling rides fascinating history and mind blowing science behind roller coasters This book is jam packed with fun facts that ll amaze and entertain any young coaster enthusiast Did you know some roller coasters go faster than a car on the highway Or that the world s tallest coaster stands as tall as a 45 story building From the earliest wooden coasters to the latest record breakers this book uncovers the coolest stories and secrets of theme parks around the globe You ll even get to learn about the physics and engineering that make these scream machines possible Imagine being the roller coaster expert among your friends able to tell amazing facts about the craziest loops drops and speeds With bright colorful pictures and illustrations and easy to understand explanations **101 Facts About Roller Coasters for Kids** makes learning fun and exciting for readers aged 8 12 Whether you re a curious beginner or a young thrill seeker this book is the perfect way to level up your knowledge of these jaw dropping rides Perfect for new roller coaster enthusiasts to get caught up on the lingo and a basic understanding of how roller coasters work Get ready for an unforgettable journey

into the world of roller coasters Read 101 Facts About Roller Coasters for Kids to and start exploring the history science and thrills of these amazing rides Nick Weisenberger is the author of *Coasters 101 An Engineer s Guide to Roller Coaster Design* a detailed book about designing roller coasters intended for ages 12 and up 101 Roller Coaster Facts for Kids is like a very basic version of *Coasters 101* for ages 8 to 12 **The Fantastical Engineer** Celeste Baine,2004 Thorough and engaging guide to theme park and entertainment careers for engineers Includes information on theme park design and an employment resource directory [The 50 Most Terrifying Roller Coasters Ever Built](#) Nick Weisenberger,2014-09-02 Mega roller coasters of today reach heights of over 400 feet and speeds in excess of 100 miles per hour Roller coasters towering taller than a certain height are terrifying for many individuals but it would be boring to simply make a list of the world s tallest coasters As a result most of the bone chilling machines in this list do not use sheer height to terrify but instead prey on our fears and emotions in other more creative ways One element alone may not make a ride terrifying but the sum of all of its parts does What factors make a roller coaster terrifying Height speed inversions backwards segments unique track elements darkness and unexpected surprises all contribute to making your head spin and your knees tremble Where are the most terrifying roller coasters found Who designs them Which park builds the craziest rides Find out by reading [The 50 Most Terrifying Roller Coasters Ever Built](#) The second coaster book from Nick Weisenberger author of *Coasters 101 An Engineer s Guide to Roller Coaster Design* which is the most in depth look at how a roller coasters are designed from concept through construction *Subject Guide to Books in Print* ,2001 **Coaster Phobia** Nick Weisenberger,2016-06-25 Overcome your fear of roller coasters by following the tips in this book My guess is you or someone you know has suffered from this fear and wants help to overcome it I ve been in the same boat The purpose of this book is to provide an understanding of what that fear is where it stems from and the actions you can take to be able to ride the roller coaster of your dreams Have you ever turned down an amazing vacation or day out with your friends because of it Your fear of coasters could actually be something very specific or a combination of fears rolled into one The best way to conquer any kind of fear is to face it In order to overcome your fear you need to understand it In the first half of this book we ll examine why people like to ride roller coasters in the first place while others are deathly afraid of them Then we ll get into the tips and strategies you can use to overpower that fear and ride that awesome and thrilling roller coaster Coaster enthusiasts strap themselves into these scream machines simply because they love being scared in a safe environment Know that your fear is treatable manageable and that you can overcome it Here Is A Preview Of What You ll Learn Examining what about the roller coaster makes you scared How roller coasters are safer than your car Benefits of riding roller coasters How riding a roller coaster could save your life Where to sit on a roller coaster How to choose the best ride to get over your fear Much much more Tags roller coasters fear of roller coaster coaster phobia fear of heights illygnophobia emetophobia mysophobia vertigo theme parks *Roller Coaster Design and Engineering* Booksgeek,2024-03-11 Step right up to the enchanting world of roller coasters

with Roller Coaster Designing and Engineering for Kids This delightful book is your child's ticket to discovering the awe inspiring universe of these adrenaline pumping marvels Imagine the joy on their faces as they flip through pages filled with the history science and artistry behind the roller coasters they adore Journey from the frosty historic ice slides in Russia to today's heart racing steel behemoths Watch your young ones eyes light up as they uncover how these thrilling rides are crafted to be both electrifying and safe learning about the physics that keeps them securely in their seats even when the world is upside down This book simplifies the intricate engineering behind roller coasters into engaging bite sized insights kids will adore They'll dive into the diverse world of coasters understand the pulse pounding physics of gravity and momentum and get a sneak peek into how designers dream up these wild rides Plus they'll discover the importance of testing and safety seeing how engineers ensure the ride is perfect before anyone steps on board Ideal for the budding engineer or any kid who's ever dreamed of building their own roller coaster this book is a gateway to a love of science and imagination It's more than a gift it's a spark for curiosity a catalyst for learning and a fun filled adventure into the world of roller coaster engineering Bring Roller Coaster Designing and Engineering for Kids into your home and watch as your child embarks on an exhilarating educational journey

Popular Science, 2004-12 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better

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Coasters 101 An Engineers Guide To Roller Coaster Design Introduction

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