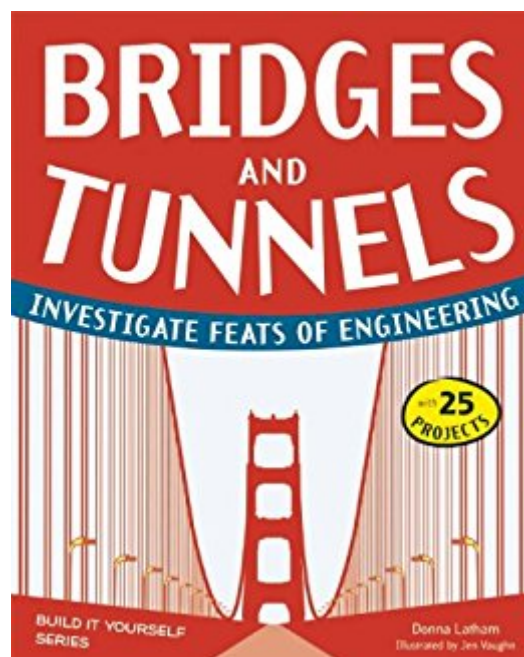




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Bridges And Tunnels: Investigate Feats Of Engineering With 25 Projects (Build It Yourself Series)



Synopsis

Exploring the innovation and physical science behind bridges and tunnels, the activities and projects in this book encourage children to learn about the design and construction of these amazing passageways. This fun and educational reference uses hands-on projects to explain complex concepts, such as Newton's Third Law of Motion, while trivia and fun facts illustrate engineering ingenuity and achievements. The activities engage kids in the important skills involved in engineering—including designing, building, and modeling—and teach the value of trial and error as they create several bridge models. Activities include making an egg bungee jump, a soda pop can engine, and a triangular toothpick dome, as well as experiments with liquefaction and corrosion.

Book Information

File Size: 4623 KB

Print Length: 130 pages

Page Numbers Source ISBN: 1936749513

Publisher: Nomad Press (June 1, 2012)

Publication Date: June 1, 2012

Sold by: Amazon Digital Services LLC

Language: English

ASIN: B008B8ZNBY

Text-to-Speech: Enabled

X-Ray: Not Enabled

Word Wise: Enabled

Lending: Not Enabled

Enhanced Typesetting: Enabled

Best Sellers Rank: #489,132 Paid in Kindle Store (See Top 100 Paid in Kindle Store) #25

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Customer Reviews

This is one interesting, fun, and applicable book. I'm creating a one day class at my library using this book. I'm no engineer, but it's explanations and applications are wonderful!

Bought for a donation to get young girls interested in construction. Perfect!

Excellent for young inquisitive minds

Another fantastic publication!! We used this along with another bridge book and it has served well with our study of bridges.

Bought it for my 8 years old son. He just loves it. I too learn a lot of things that I should have learnt when I was a kid :).

This is brilliant. Wonderful selection of expts, easy to follow, thoroughly recommend.

Well, I can't say it's the finest book I've reviewed--because I already said that on another book in the series! (The Canal/Dam one.) So, I can only say, it is the "SECOND BEST BOOK I'VE REVIEWED!" Another really fun book, supposedly for kids, but like the canal/dam book, I really enjoy reading about the great tunnels in the world. I hate to repeat myself, but I have to. Once again--Congratulations are in order to the author Donna Latham, for a SUPERB, PROFESSIONAL & POLISHED book. Also to illustrator Jenn Vaughn. Some of those illustrations are really funny and cute. I like the designer at his drafting board, with the cat peeking over. (And isn't there one showing some guy falling off a bridge?)

Why You Should Buy This Book

This is the SECOND BEST book I have ever reviewed! Fascinating description of engineering marvels of bridges and tunnels. Plus, the illustrations are really excellent and add a lot of spice to the book.

Top 3 Things I Liked

- Excellent illustrations of each engineering wonder.
- New terms are explained clearly in each chapter, under "Words to Know."
- Fun seeing how tunnels were built (and sometimes didn't work!)

"Nervous workers never knew when Nitroglycerin might go off!"

Things I Didn't Like

Nothing. I am hard pressed to name anything I didn't like.

Rating of Key Features

- Readability: Well-written, lots of fun!
- Quality of Illustrations: Really added to the dialogue.
- Quality of Table of Contents: Good. Points to the different chapters.
- Quality of Editing: Excellent. Very well organized; clearly someone has spent a TON of time creating this work.
- Thoroughness of Index: Extremely

thorough! There is also a glossary of terms. Usefulness: Wow! Interesting stories about the great tunnels and bridges. Now, I have to go see them myself. SPECIAL FEATURES As with other books in the series, there are some really fun "science in action" projects to try yourself. I'm building the Rocketmobile, and will report back. Plus, you can simulate what it's like to get decompression sickness! Fun! (Also known as the Bends.) History tidbits: Did you know what G. Washington did before he became president? And check-out the history of the Thames Tunnel, started in 1825. Now I want to go visit that tunnel! SUMMARY Another really fun to read book. Now, we really know these are designed for adults, right? Kids can't have all the fun. Well, I guess we can allow kids to read it, too. HIGHLY RECOMMEND! Here are some other titles in the series, also by Donna Latham. I plan to check them all out! SKYSCRAPERS: INVESTIGATE FEATS OF ENGINEERING WITH 25 PROJECTS (Build It Yourself) Coniferous Forests (Endangered Biomes) CANALS AND DAMS: INVESTIGATE FEATS OF ENGINEERING WITH 25 PROJECTS (Build It Yourself) AMAZING BIOME PROJECTS: YOU CAN BUILD YOURSELF (Build It Yourself) Garbage: Investigate What Happens When You Throw It Out With 25 Projects (Build It Yourself) [Note: I do not know the author of this book, nor did anyone request this review.] A Review by Chris Lawson

This is the book to buy for your child's interest in bridge building. Information about engineering professions, technology, equipment -- 15 pages! Then into the projects and historical bridge building techniques. Very good projects, doable by regular kids with materials you already own (cardboard tubes, poster board, popsicle sticks (need lots!), marshmallows/toothpicks, pennies, sugar cubes, plastic cups... You'll learn about Ancient Roman pile drivers, about prefabricated cast iron bridges, about structural collapse... about all types of bridges, famous bridges, and forces at work on bridges. THEN you learn it all about tunnels. Oh, yes. What a book. Buy this book. And for seriously bridge-crazed kids, try K'NEX K'NEX Education - Real Bridge Building

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