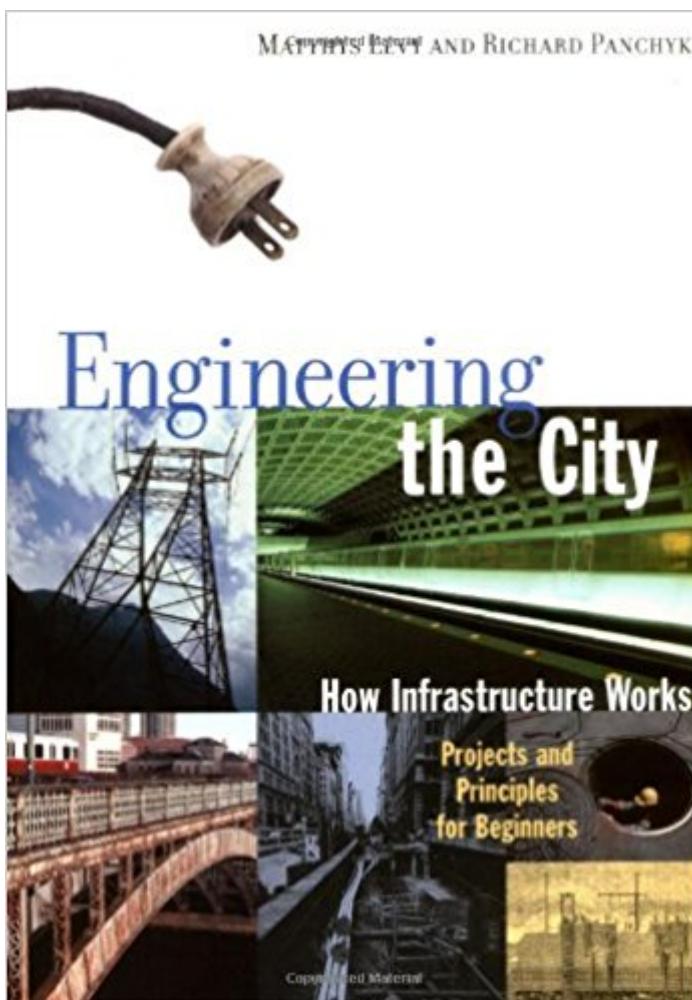


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# Engineering The City: How Infrastructure Works, Projects And Principles For Beginners



## **Synopsis**

How does a city obtain water, gas, and electricity? Where do these services come from? How are they transported? The answer is infrastructure, or the inner, and sometimes invisible, workings of the city. Roads, railroads, bridges, telephone wires, and power lines are visible elements of the infrastructure; sewers, plumbing pipes, wires, tunnels, cables, and sometimes rails are usually buried underground or hidden behind walls. Engineering the City tells the fascinating story of infrastructure as it developed through history along with the growth of cities. Experiments, games, and construction diagrams show how these structures are built, how they work, and how they affect the environment of the city and the land outside it.

## **Book Information**

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Best Sellers Rank: #286,978 in Books (See Top 100 in Books) #4 in Books > Children's Books > Education & Reference > Science Studies > Engineering #76 in Books > Children's Books > Arts, Music & Photography > Architecture #1560 in Books > Books > Engineering & Transportation > Engineering > Civil & Environmental

Age Range: 9 and up

Grade Level: 4 and up

## **Customer Reviews**

Gr. 6-12. Future engineers, math enthusiasts, and students seeking ideas for science projects will all be fascinated by this book, which is filled with engineering "projects and principles for beginners." Facts about dams and bridges segue into information about water transportation and irrigation, and eventually into a chapter that answers the question, "What happens when I flush the toilet?" Other sections deal with highways, railroads, electrical circuitry, and garbage disposal. Simple line drawings unobtrusively enhance descriptions in the text, and there are specific, step-by-step ideas for engineering experiments that usually require only simple household objects. Each chapter ends

with a brief list of suggested further activities that encompass geography, writing, geometry, and even history. A source of both general information and activities that can be used across the curriculum. Roger LeslieCopyright © American Library Association. All rights reserved

“Future engineers, math enthusiasts, and students seeking ideas for science projects will all be fascinated by this book.” •Booklist“A terrific book to help you answer those tough questions about everyday structures in an urban environment...filled with useful drawings and pictures...loaded with experiments, design projects and construction diagrams.” •Demolition

Excellent book for my 10 year old grandson. He loves building and wants to learn as much as possible about the science behind it. This gives a clear written picture regarding engineering, followed up with experiments to do on your own to visually learn the concept. I purchased a used copy that arrived in excellent, like new condition.

This is a very helpful guide for teachers who want to give their K-6 students a broad overview of urban infrastructure. The writing is clear and crisp, and there are a lot of accompanying diagrams and examples.

Not as comprehensive as I was expecting.

Wealth of information!!

I found this book easy to read, with excellent pictures. We need our young people interested in engineering and understand what it means. Fascinating! Fantastic books for young engineers (to be)!

I totally agree with the previous reviewer; this is a fun book to read with your kids and do the activities together. It's also perfect for those awkward moments when they ask you a question like, "how does a road work?" and you don't exactly know the answer. It spells out everything in an easy-to-understand way.

Good

This is actually a juvenile title, and should be labelled as such.

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