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Building Bridges (Young Engineers)

"A welcome tribute to the persistence, precision and humanity of Washington Roebling and a love-song for the mighty New York bridge he built." -The Wall

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Street Journal Chief Engineer is the first full biography of a crucial figure in the American story-Washington Roebling, builder of the Brooklyn Bridge. One of America's most iconic and recognizable structures, the Brooklyn Bridge is as much a part of New York as the Statue of Liberty or the Empire State Building.

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Yet its distinguished builder is too often forgotten-and his life is of interest far beyond his chosen field. It is the story of immigrants, the frontier, the Civil War, the making of the modern world, and a man whose long life modeled courage in the face of extraordinary adversity. Chief Engineer is enriched by

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Roebing's own eloquent voice, unveiled in his recently discovered memoir, previously thought lost to history. The memoir reveals that his father John-a renowned engineer who made his life in America after humble beginnings in Germany-was a tyrannical presence in Roebing's life. It

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also documents Roebling's time as a young man in the Union Army, when he built bridges that carried soldiers across rivers and saw action in pivotal battles from Antietam to Gettysburg. Safely returned, he married the remarkable Emily Warren Roebling, who would play a crucial role in the

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construction of the Brooklyn Bridge, Roebling's grandest achievement-but by no means the only one. Elegantly written with a compelling narrative sweep, Chief Engineer introduces Washington Roebling and his era to a new generation of readers.

Imagine you woke up one morning to

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find everything created by engineers had disappeared. What would you see? No cars, no houses; no phones, bridges or roads. No tunnels under tidal rivers, no soaring skyscrapers. The impact that engineering has had on the human experience is undeniable, but it is also often invisible. In BUILT, structural

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engineer Roma Agrawal takes a unique look at how construction has evolved from the mud huts of our ancestors to skyscrapers of steel that reach hundreds of metres into the sky. She unearths how engineers have tunnelled through kilometres of solid mountains; how they've bridged across the widest

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and deepest of rivers, and tamed Nature's precious – and elusive – water resources. She tells vivid tales of the visionaries who created the groundbreaking materials in the Pantheon's record-holding concrete dome and the frame of the record-breaking Eiffel Tower. Through the lens

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of an engineer, Roma examines tragedies like the collapse of the Quebec Bridge, highlighting the precarious task of ensuring people's safety they hold at every step. With colourful stories of her life-long fascination with buildings – and her own hand-drawn illustrations – Roma

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reveals the extraordinary secret lives of structures.

Transforming Residential Interventions: Practical Strategies and Future Directions captures the emerging changes, exciting innovations, and creative policies and practices informing ground-breaking residential

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programs. Building on the successful 2014 publication Residential Interventions for Children, Adolescents, and Families, this follow-up volume provides a contemporary framework to address the needs of young people and their families, alongside practical strategies that can be implemented at

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the program, community, system, and policy levels. Using the Building Bridges Initiative as a foundation, the book serves as a "how-to manual" for making bold changes to residential interventions. The reader will learn from a range of inspired leaders who, rather than riding the wave of change, jumped

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in and created the wave by truly listening to and partnering with their youth, families, advocates, and staff. Chapters provide real-time practice examples and specific strategies that are transformational and consider critical areas, such as family and youth voice, choice and roles, partnerships,

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permanency and equity, diversity, and inclusion. These methods benefit youth with behavioral and/or emotional challenges and their families and will improve an organization's long-term outcomes and fiscal bottom line. This book is for oversight agencies, managed care companies, providers of

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service, advocates, and youth/family leaders looking for an exemplar guide to the new frontier of residential intervention. In this era of accountability and measurement, it will become a trusted companion in leading residential interventions to improved practices and outcomes.

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Upon completion of the Brooklyn Bridge, P.T. Barnum and his twenty-one elephants parade across to prove to everyone that the bridge is safe.

The Engineer's Wife

The Sky-scraping Story of Structures
Practical Strategies and Future
Directions

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Building Structures and Towers
Classifications, Design Loading, and
Analysis Methods

Transforming Residential Interventions

Bridges are a crucial part of trade and transportation. They allow vehicles and pedestrians alike to cross everything from rushing rivers to rocky ravines. Readers

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will trace the history of bridges from their invention in ancient times to the construction of modern bridges. In this unique guidebook, the reader is invited to take a tour of the bridges of the Pacific Northwest and meet the friendly monsters who live under them.

Uses engaging nonfiction text and hands-on projects to help young readers explore

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real-life flying vehicle engineering projects, including the science behind how these vehicles are planned and built.

Bridges have helped people cross large bodies of water for millennia. Readers discover the engineering behind bridges. The Stories Behind Amazing Structures Secret Engineer: How Emily Roebling

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Built the Brooklyn Bridge

Municipal and County Engineering
Bridges, Pathways and Transitions
How Was That Built?

*"Introduces the reader to the
science of Bridges and*

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tunnels"--

Learn how bridges are designed and built while actually building them (out of paper). This bridge building paper model kit comes complete with cut out plans and instructions for a truss bridge,

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*a beam bridge, an arch bridge,
and a cable stayed bridge. Plus,
learn how actual bridges are
built with the illustrated
methods and techniques of
building real bridges through
out the book. But WAIT! There's*

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*MORE! Test your bridges
breaking points and record the
results on the results page. This
book is great for future
Architects, Designers, and
Engineers. INCLUDED Truss
bridge cut out plans and*

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*instructions Beam bridge cut
out plans and instructions Arch
bridge cut out plans and
instructions Cable Stayed
bridge cut out plans and
instructions Illustrated methods
and techniques on how real*

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*bridges are built Results graph
page Fill in bridge engineering
certificate*

*Audisee® eBooks with Audio
combine professional narration
and text highlighting for an
engaging read aloud*

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experience! The Golden Gate Bridge is an important structure in San Francisco, California. Before this bridge was built, people had to take a ferry across the dangerous stretch of water to get to Marin

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County. Now they simply drive across. Just how long is the Golden Gate Bridge? And how did workers build this orange structure? Read this book to find out! Learn about many remarkable sites in the Famous

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*Places series - part of the
Lightning Bolt Books™
collection. With high-energy
designs, exciting photos, and
fun text, Lightning Bolt
Books™ bring nonfiction
topics to life.*

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Uses engaging nonfiction text and hands-on projects to help young readers explore real-life structure and tower engineering projects, including the science behind how these buildings are planned and built.

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Here To There and Me To You

Monsters Under Bridges

How To Build A Bridge

The Art of Engineering

Bridges

Investigate Feats of

Engineering with 25 Projects

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A hilarious, irreverent book about doing your own thing Meet Iggy Peck—creative, independent, and not afraid to express himself! In the spirit of David Shannon's No, David and Rosemary Wells's Noisy Nora, Iggy Peck will delight readers

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looking for irreverent, inspired fun. Iggy has one passion: building. His parents are proud of his fabulous creations, though they're sometimes surprised by his materials—who could forget the tower he built of dirty diapers?

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When his second-grade teacher declares her dislike of architecture, Iggy faces a challenge. He loves building too much to give it up! With Andrea Beaty's irresistible rhyming text and David Roberts's puckish illustrations, this book will charm

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creative kids everywhere, and amuse their sometimes bewildered parents. Also from the powerhouse author-illustrator team of Iggy Peck, Architect, is Rosie Revere, Engineer, a charming, witty picture book about believing in yourself

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and pursuing your passion. Ada Twist, Scientist, the companion picture book featuring the next kid from Iggy Peck's class, is available in September 2016.

The most recent addition to Prestel's acclaimed series, which

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introduces children to important works of art and architecture, offers a fascinating look at bridges that span the centuries as well as the globe. The bridges profiled in this engaging book for young readers have achieved legendary status.

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Filled with photographs, plans, drawings, and informative texts it explores the fascinating history, construction, design, and significance of 13 renowned structures in a manner that will appeal to children hungry for

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information. In double-page spreads that highlight important as well as little-known facts, they will learn about the building of the Millau Viaduct, the tallest bridge in the world; how the Golden Gate bridge lives up to its evocative

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name; the haunting history of Venice's 16th-century Bridge of Sighs, and the ingenious construction methods devised by the builders of the Brooklyn Bridge. Vibrantly designed to encourage children to linger and explore the

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subject further, this book will appeal to curious minds, and inspire its young readers to dream and build on their own.

Building BridgesCapstone
From New York Times best-selling author Judith Dupréomes a revised

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and updated edition of Bridges, her magnificent chronological tour of the world's most significant and eye-popping spans. Covering thousands of years of architectural history, each bridge is gorgeously photographed "elevating the

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landmarks from mode of transportation to works of art" (Bustle). Technological advances, structural daring, and artistic vision have propelled the evolution of bridge design around the world. This visual history of the world's

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landmark bridges has been thoroughly revised and updated since its initial publication twenty-five years ago, and now showcases well-known classics as well as modern innovators. Bridges featured include: The Brooklyn

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Bridge (New York) Dany and-
Kunshan Grand Bridge (China)
Gateshead Millennium Bridge
(England) The Golden Gate Bridge
(San Francisco) Zakim Bridge
(Boston) Including all-new
photographs and the latest cutting

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edgework from today's international superstars of architecture and engineering, Bridges covers two-thousand years of technological and aesthetic triumphs, making it the most thorough, authoritative, and gorgeous book on the subject-

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as dramatic in presentation as the structures it celebrates.

Breathtaking photographs capture the bridges' details as well as their monumental scale; architectural drawings and plans invite you behind the scenes as new bridges

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take shape; and lively commentary on each structure explores its importance and places it in historical context. Throughout, informative profiles, features, and statistics make Bridges an invaluable reference as well as a

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visual feast.

Paper Model Kit - For Kids To
Learn Bridge Building Methods and
Techniques With Paper Crafts
The Unofficial Guide to Building
Bridges in Minecraft
A Book of Bridges

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The Epic Story of the Building of
the Brooklyn Bridge

Bridges and Tunnels

The Great Bridge

AN INTERNATIONAL BESTSELLER

*She built the Brooklyn Bridge,
so why don't you know her*

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name? Emily Roebling built a monument for all time. Then she was lost in its shadow. Discover the fascinating woman who helped design and construct the Brooklyn Bridge. Perfect for book clubs and fans

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of Marie Benedict. Emily refuses to live conventionally—she knows who she is and what she wants, and she's determined to make change. But then her husband asks the unthinkable: give up her dreams to make his

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possible. Emily's fight for women's suffrage is put on hold, and her life transformed when her husband Washington Roebling, the Chief Engineer of the Brooklyn Bridge, is injured on the job. Untrained for the

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task, but under his guidance, she assumes his role, despite stern resistance and overwhelming obstacles. But as the project takes shape under Emily's direction, she wonders whose legacy she is

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building—hers, or her husband's. As the monument rises, Emily's marriage, principles, and identity threaten to collapse. When the bridge finally stands finished, will she recognize the woman who built

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it? Based on the true story of an American icon, The Engineer's Wife delivers an emotional portrait of a woman transformed by a project of unfathomable scale, which takes her into the bowels of the East River,

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suffragette riots, the halls of Manhattan's elite, and the heady, freewheeling temptations of P.T. Barnum. The biography of a husband and wife determined to build something that lasts—even at

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*the risk of losing each other.
"Historical fiction at its
finest."—Andrea Bobotis, author
of The Last List of Miss Judith
Kratt Other Bestselling Historical
Fiction from Sourcebooks
Landmark: The Only Woman in*

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the Room by Marie Benedict
The Mystery of Mrs. Christie by Marie Benedict
The Book Woman of Troublesome Creek by Kim Michele Richardson
Sold on a Monday by Kristina McMorris

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Bridges are some of the most fascinating structures in our landscape, and they come in all forms. From towering suspension bridges to humble stone crossings, this book visits them all in sweet, bouncing text

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with expository sidebars. But while bridges can be quite grand, this reminds us that their main purpose is bringing people together. This is perfect for budding architects, as well as readers who can relate to

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*having loved ones who live far
away.*

*Bridge Engineering:
Classifications, Design Loading,
and Analysis Methods begins
with a clear and concise
exposition of theory and*

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practice of bridge engineering, design and planning, materials and construction, loads and load distribution, and deck systems. This is followed by chapters concerning applications for bridges, such as: Reinforced and

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Prestressed Concrete Bridges, Steel Bridges, Truss Bridges, Arch Bridges, Cable Stayed Bridges, Suspension Bridges, Bridge Piers, and Bridge Substructures. In addition, the book addresses issues

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commonly found in inspection, monitoring, repair, strengthening, and replacement of bridge structures. Includes easy to understand explanations for bridge classifications, design loading,

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*analysis methods, and
construction Provides an
overview of international codes
and standards Covers structural
features of different types of
bridges, including beam
bridges, arch bridges, truss*

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*bridges, suspension bridges,
and cable-stayed bridges*
*Features step-by-step
explanations of commonly used
structural calculations along
with worked out examples*
Despite the ever-changing

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demographics of the United States and decisions made by the Supreme Court, racial tensions and turmoil continue to affect daily life in a multitude of environments. In educational environments, advancements in

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teaching technologies, in conjunction with these tensions, require a cooperation between parents and school personnel to promote student success. Social Justice and Parent Partnerships in Multicultural Education

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Contexts is a critical scholarly resource that explores the importance of cooperation between parents, teachers, and administrators to create valuable support systems that will promote student success

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through strategies using social justice. Featuring coverage on a wide range of topics, such as parent collaboration, bilingualism, and community-based partnerships, this book is geared toward academicians,

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*researchers, and teachers
seeking current research on the
importance of cooperation
between parents and education
professionals in encouraging
positive student outcomes in
multicultural learning*

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environments.

*Washington Roebling, The Man
Who Built the Brooklyn Bridge*

Building Vehicles that Fly

Chief Engineer

*See Inside Bridges, Towers and
Tunnels*

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A History of the World's Most Spectacular Spans

Pop's Bridge

Imaginative Jack describes the kind of house he would build--one with a racetrack, a flying room, and a gigantic

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slide.

Women engineers have been in the public limelight for decades, yet we have surprisingly little historically grounded understanding of the patterns of employment and

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education of women in this field. Most studies are either policy papers or limited to statistical analyses. Moreover, the scant historical research so far available emphasizes the individual, single and unique

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character of those women working in engineering, often using anecdotal evidence but ignoring larger issues like the patterns of the labour market and educational institutions. Crossing Boundaries, Building

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Bridges offers answers to the question why women engineers have required special permits to pass through the male guarded gates of engineering and examines how they have managed this. It

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explores the differences and similarities between women engineers in nine countries from a gender point of view. Through case studies the book considers the mechanisms of exclusion and inclusion of

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women engineers.

This playful preschool activity book for kids will unleash your child's curiosity and creativity as they play their way through 15 super fun STEM projects. Every project features bright

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photography and charming illustrations, which support the easy-to-follow instructions. Perfect for ages 3-6, this children's book will excite little ones by revealing the everyday ways they can be an engineer.

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Children are born with everything they need to be great engineers - inquisitive minds, unlimited imagination, and super senses. With this educational book in hand, little readers are encouraged to use

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their senses to investigate and discover the world of science and math while having fun. This kids book is ridiculously cool and filled with fun experiments you and your kids can do together. They'll learn

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how to make the strongest paper bridges, how to power a tugboat with an elastic band, which materials make the best parachutes, and much more. These ingenious hands-on activities align with subjects

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taught at school, including science, math, and technology. Children have the opportunity to do what they do best with this awesome kids' activity book - imagine, create, learn, problem-solve, and above all,

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play their way to engineering discovery. Get Your Engineering Hat Ready! You were born with everything you need to be an engineer - a brilliant brain and spectacular senses! Get ready to touch,

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smell, see, hear, and taste your way to engineering excellence. Find out how to make a floating rescue raft, what makes a bridge super strong, why paper planes glide and much, much more! Full of

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amazing engineering creations
for kids to make like: - A
magical woodland den - A
sweet, sweet pyramid - The
coolest paper bridge - A totally
artistic painting pendulum
(we're learning gravity here) -

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And much more! Prepare to have all the FUN! DK's Look! I'm Learning series of exciting and educational STEM books focus on the sensory experience of practical learning and play and finds the science

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in everyday activities. Hands-on learning experiences tap straight into kids' insatiable curiosity and sense of wonder. These books for children are perfect for ages 3-6 as they are formatted with a padded cover

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and toddler-tough pages. The series encourages children to develop independence and improves their critical thinking, investigation skills, and motor skills. Try the other titles in the series next, including Look I'm

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A Scientist, Look I'm A
Mathematician, and Look I'm A
Cook.

We spend a lot of our lives in
buildings, but how many of us
really think about how theyre
built and what they do for us?

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As society developed, architects needed to create different kinds of structure from palaces and temples to modern factories and airports. This book explores the science of architecture since ancient

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times, and examines the life cycle of a building, from design to demolition. It looks at the challenges faced by today's architects, including how to build in areas prone to natural disaster, and how to build

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sustainably, so that our structures don't end up damaging the planet. After all, the first kilometer-high building is already under construction! Features include funny and interesting illustrations; real-

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world science examples; side panels to tackle complex subject matter in a fun and relevant way; detailed glossary and more.

Crossing Boundaries, Building Bridges

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A Novel

The Global Engineers

The Golden Gate Bridge

Wild Buildings and Bridges

Social Justice and Parent

Partnerships in Multicultural

Education Contexts

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The Golden Gate Bridge. The impossible bridge, some call it. They say it can't be built. But Robert's father is building it. He's a skywalker--a brave, high-climbing ironworker. Robert is convinced his pop has the most important job on

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the crew . . . until a frightening event makes him see that it takes an entire team to accomplish the impossible. When it was completed in 1937, San Francisco's Golden Gate Bridge was hailed as an international marvel. Eve Bunting's

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riveting story salutes the ingenuity and courage of every person who helped raise this majestic American icon. Includes an author's note about the construction of the Golden Gate Bridge.

The surprising ways nature has

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influenced architecture. It may come as a surprise to learn that architects have found solutions to all kinds of design challenges in nature! Some have looked to nature to solve a structural problem, like creating an earthquake-proof bridge by

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mimicking the extremely long roots of a special type of grass. Others have turned to nature for artistic inspiration, designing buildings and bridges that evoke the movement of swimming fish or a bird in flight. When it comes to style and

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structure, nature and architecture make perfect partners! From cactuses to birds's wings, termite towers to honeycombs, inspiration for ingenious design is everywhere around us!

Bridges are a big part of how

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people get from place to place. But how do they work and how are they built? In this engaging text, readers will explore these important engineering marvels that link places divided by water. Along the way they will learn how to build their own

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model bridge with a step-by-step guide accompanied by full-color photographs of each step.

Accessible text illuminates the science behind every span we drive over[?]and sometimes under!

On a warm spring day in 1883, a

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woman rode across the Brooklyn Bridge with a rooster on her lap. It was the first trip across an engineering marvel that had taken nearly fourteen years to construct. The woman's husband was the chief engineer, and he knew all

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about the dangerous new technique involved. The woman insisted she learn as well. When he fell ill mid-construction, her knowledge came in handy. She supervised every aspect of the project while he was bedridden, and she continued to

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learn about things only men were supposed to know: math, science, engineering. Women weren't supposed to be engineers. But this woman insisted she could do it all, and her hard work helped to create one of the most iconic landmarks in

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the world. This is the story of Emily Roebling, the secret engineer behind the Brooklyn Bridge, from author-illustrator Rachel Dougherty.

13 Bridges Children Should Know

Bridge Engineering

How Do Bridges Not Fall Down?

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Architecture Inspired by Nature
International Innovations in
Widening Participation
If I Built a House
Bridges, Pathways and Transitions:
International Innovations in Widening
Participation shows that widening

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participation initiatives and policies have had a profound impact on improving access to higher education to historically marginalized groups of students from diverse socioeconomic and cultural backgrounds. The research presented provides a source of inspiration to students who are navigating disadvantage to succeed

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in higher education against the odds. There are stories of success in difficult circumstances, revealing the resilience and determination of individuals and collectives to fight for a place in higher education to improve chances for securing social mobility for next generations. The book also reveals that more work and policy interventions are

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needed to further equalize the playing field between social groups. Governments need to address the entrenched structural inequalities, particularly the effects of poverty, that prevent more academically able disadvantaged students from participating in higher education on the basis of the circumstances of their birth.

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Across the globe, social reproduction is far more likely than social mobility because of policies and practices that continue to protect the privilege of those in the middle and top of social structures. With the gap between rich and poor widening at a rate previously unseen, we need radical policies to equalize the playing field in fundamental ways.

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Focuses on collaborations with schools, families, and communities Highlights tools and methods to aid in the creation of pathways, bridging initiatives into higher education Includes case studies that show how students are supported during the transition into high education systems Bridges and tunnels are lifelines. People

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have tackled seemingly insurmountable obstacles, including vast canyons and mountain ranges, to design and construct these amazing passageways. Bridges and Tunnels: Investigate Feats of Engineering invites children ages 9 and up to explore the innovation and physical science behind structures our world depends on. Trivia and

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fun facts illustrate engineering ingenuity and achievements. Activities and projects encourage children to learn about the engineering process and to embrace trial and error.

Uses engaging nonfiction text and hands-on projects to help young readers explore real-life bridge engineering projects, including

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the science behind how these structures are planned and built.

Delve behind the scenes to look inside bridges, tunnels and towers around the world. Lift the flaps to reveal the mechanics and engineering of constructions including the Channel Tunnel connecting England and France, the Burj Khalifa in Dubai, the

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tallest building in the world, and many more. Usborne are official partners of the Year of Engineering 2018, a UK government initiative to inspire the next generation of engineers. With beautiful full-colour illustrations and fascinating details to discover on every page. Lift the flaps on each illustration to reveal layers of further

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information.

Building Bridges

Cross a Bridge

The Science of Bridges and Tunnels

Look I'm an Engineer

The Role of Failure in Successful Design

Building a Safe and Equitable World

Together

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Describes different kinds of bridges: how they are built and how they are used.

Have you ever wondered how bridges don't fall down or how really old buildings stay standing up? In the How Do series,

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readers are welcome to guess along with the rest of us--and then explore the science behind the right answers. Basic principles of architecture and engineering, including an introduction to bridges, locks,

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arches, columns, and skyscrapers are explored through diagrams, photos, and informative and engaging text. A detailed account of the construction of the Brooklyn Bridge providing background on

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**its engineering history as well as
the political and social climate of
the late-nineteenth century.**

Reissue. 10,000 first printing.

**“Though ours is an age of high
technology, the essence of what
engineering is and what**

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engineers do is not common knowledge. Even the most elementary of principles upon which great bridges, jumbo jets, or super computers are built are alien concepts to many. This is so in part because engineering

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as a human endeavor is not yet integrated into our culture and intellectual tradition. And while educators are currently wrestling with the problem of introducing technology into conventional academic curricula, thus better

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preparing today's students for life in a world increasingly technological, there is as yet no consensus as to how technological literacy can best be achieved. " I believe, and I argue in this essay, that the

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ideas of engineering are in fact in our bones and part of our human nature and experience.

Furthermore, I believe that an understanding and an appreciation of engineers and engineering can be gotten

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without an engineering or technical education. Thus I hope that the technologically uninitiated will come to read what I have written as an introduction to technology. Indeed, this book is my answer

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**to the questions 'What is
engineering?' and 'What do
engineers do?'" - Henry Petroski,
To Engineer is Human
How a Bridge Is Built
Iggy Peck, Architect
The Science of Buildings**

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Twenty-one Elephants and Still Standing To Engineer is Human

People have been building bridges for centuries. Many bridges allow people to cross rivers and ravines. Others

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were constructed to bring water from distant mountains to city centers. Today, people recognize beautiful bridges from all over the world, such as the Golden Gate Bridge in San

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Francisco. These bridges can be reproduced in Minecraft. This volume helps young readers understand essential engineering concepts. Readers are encouraged to experiment with coding and

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creating mods in Minecraft. Stunning cutaway images and Minecraft illustrations allow readers to bring their own bridges into the game. The Global Engineers: Building a Safe and Equitable

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World Together, is inspired by the opportunities for engineers to contribute to global prosperity. This book presents a vision for Global Engineering, and identifies that engineers should be

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concerned with the unequal and unjust distribution of access to basic services, such as water, sanitation, energy, food, transportation, and shelter. As engineers, we should place an emphasis

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on identifying the drivers, determinants, and solutions to increasing equitable access to reliable services. Global Engineering envisions a world where everyone has safe water, sanitation,

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energy, food, shelter, and infrastructure, and can live in health, dignity, and prosperity. This book seeks to examine the role and ultimately the impact of engineers in global

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development. Engineers are solutions-oriented people. We enjoy the opportunity to identify a product or need, and design appropriate technical solutions. However, the structural and historical

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barriers to global prosperity requires that Engineers focus more broadly on improving the tools and practice of poverty reduction and that we include health, economics, policy, and

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governance as relevant expertise with which we are conversant. Engineers must become activists and advocates, rejecting ahistorical technocratic approaches that suggest

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poverty can be solved without justice or equity. Engineers must leverage our professional skills and capacity to generate evidence and positive impact toward rectifying inequalities

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and improving lives. Half of this book is dedicated to profiles of engineers and other technical professionals who have dedicated their careers to searching for solutions to global

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development challenges. These stories introduce the reader to the diverse opportunities and challenges in Global Engineering.