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Famous Bridges Of The World: Measuring Length, Weight, And Volume (POWERMATH)

One of the greatest classics of modern Western literature and science and the source of the ripest thoughts of America's most important philosopher.

The Golden Gate Bridge is one of the most beautiful and most photographed structures in the world. It's also the most deadly.

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Since it opened in 1937, more than 1,500 people have died jumping off the bridge, making it the top suicide site on earth. It's also the only international landmark without a suicide barrier. Weaving drama, tragedy, and politics against the backdrop of a world-famous city, *The Final Leap* is the first book ever written about Golden Gate Bridge suicides. John Bateson leads us on a fascinating journey that uncovers the reasons for the design decision that led to so many deaths, provides insight into the phenomenon of suicide, and

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examines arguments for and against a suicide barrier. He tells the stories of those who have died, the few who have survived, and those who have been affected—from loving families to the Coast Guard, from the coroner to suicide prevention advocates.

*Includes pictures *Includes accounts of the bridges' construction written by those who worked on the projects *Includes bibliographies for further reading

*Includes a table of contents "[A] perpetual monument that will make this

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city's name ring around the world and renew the magical fame which the Golden Gate enjoyed in the days of '49." - S.F. Examiner editorial, March 24, 1925 New York City has countless landmarks and tourist spots, but few are as old or as associated with the city as the Brooklyn Bridge, the giant suspension bridge that spans nearly 1,600 feet as it connects lower Manhattan to Brooklyn. Indeed, the bridge is so old that Manhattan and Brooklyn represented the largest and third largest cities in America at the time of

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its construction, and the East River posed a formidable enough challenge that taking a ferry across could be dangerous.

Originally known as the New York and Brooklyn Bridge and then later as the East River Bridge, the iconic bridge wasn't formally dubbed the Brooklyn Bridge until about 30 years after it was completed in the early 1880s. As the first steel suspension bridge built in America, it represented an enormous engineering feat that claimed the lives of several workers, including its original designer, but by

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the time it was finished, the Brooklyn Bridge towered nearly 300 feet above the water at over 80 feet wide. With those dimensions, it was over 50% larger than any suspension bridge to date. From its inception, the Brooklyn Bridge has been celebrated as one of the things that makes New York City unique. President Chester Arthur attended its opening, and P.T. Barnum famously walked Jumbo the Elephant across the bridge as a publicity stunt. Yet despite its age and the fact that so many contemporary bridges have fallen into

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disrepair or were destroyed, the Brooklyn Bridge continues to be not just an instantly identifiable landmark in New York City but also a crucially valuable one that is still used by thousands of people a day. Likewise, the Golden Gate Bridge in San Francisco is one of the modern world's engineering marvels. The giant suspension bridge spans the San Francisco Bay, with a length of over 1.5 miles, a height of nearly 750 feet, and a width of around 100 feet. While it is a beautiful and instantly recognizable

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Landmark, the Golden Gate Bridge was also a very practical one born of necessity. After the California Gold Rush helped turn San Francisco into a destination site, connecting people on both sides of the beautiful Golden Gate Strait became vitally important. There was a consistent ferry service in the area, but the advent of automobiles made a bridge even more imperative. At the same time, no one in the world had ever successfully built a bridge as long as this one would be, and indeed, no one else would for another

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three decades after the Golden Gate Bridge opened. Given its size, it should come as little surprise that the Golden Gate Bridge was one of the most ambitious and expensive projects of its age. Indeed, it would take nearly 20 years from the time the bridge was proposed to its grand opening, and it cost hundreds of millions of dollars (the equivalent of several billion today). When it finally opened in 1937, Joseph Strauss, the man most responsible for the bridge, remarked, "This bridge needs neither praise, eulogy

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nor encomium. It speaks for itself. We who have labored long are grateful. What Nature rent asunder long ago, man has joined today." The Brooklyn Bridge and the Golden Gate Bridge: The History of America's Most Famous Bridges chronicles the story of how one of America's most famous bridges was built. Along with pictures of important people, places, and events, you will learn about the Golden Gate Bridge like never before, in no time at all.

A Tale of Two Bridges is a history of two

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versions of the San Francisco–Oakland Bay Bridge: the original bridge built in 1936 and a replacement for the eastern half of the bridge finished in 2013. The 1936 bridge revolutionized transportation in the Bay Area and profoundly influenced settlement patterns in the region. It was also a remarkable feat of engineering. In the 1950s the American Society of Civil Engineers adopted a list of the “Seven Engineering Wonders” of the United States. The 1936 structure was the only bridge on the list, besting even the more famous

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Golden Gate Bridge. One of its greatest achievements was that it was built on time (in less than three years) and came in under budget. Mikesell explores in fascinating detail how the bridge was designed by a collection of the best-known engineers in the country as well as the heroic story of its construction by largely unskilled laborers from California, joined by highly skilled steel workers. By contrast, the East Span replacement, which was planned between 1989 and 1998, and built between 1998 and

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2013, fell victim to cost overruns in the billions of dollars, was a decade behind schedule, and suffered from structural problems that has made it a perpetual maintenance nightmare. This is narrative history in its purest form. Mikesell excels at explaining highly technical engineering issues in language that can be understood and appreciated by general readers. Here is the story of two very important bridges, which provides a fair but uncompromising analysis of why one bridge succeeded and the other did not.

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The Bridges of New Jersey

Famous Bridges

The Golden Gate Bridge

The Great Bridge

An Encyclopaedia of World Bridges

What would we do without bridges? They allow us to cross over great heights and dangerous waters that would be inaccessible without bridges. But some bridges are more than a link between two places. From New York to Singapore, the stories of these bridges celebrate the engineers, architects, and the workers who built them. Learn about the world's famous bridges while learning fractions. This nonfiction book combines math and literacy

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skills and uses everyday examples of problem solving to teach subject area content. The full-color images, math charts and diagrams, sidebars, and practice problems make learning math easy and fun. Text features include a table of contents, glossary, and index to increase understanding of math and reading concepts. An in-depth problem-solving section provides additional learning opportunities while challenging students' higher-order thinking skills.

In this delightfully original take on nonfiction, bestselling author Dave Eggers tackles one of the most famous architectural and natural monuments in the world: the Golden Gate Bridge. Cut-paper illustrations by Tucker Nichols ensures that this book feels like a special object, and the revised edition includes real-life letters from

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constituents making the case for keeping the bridge orange. The narrative's sly humor makes the topic perfectly accessible for kids enthusiastic about nonfiction. This one-of-a-kind book transports readers to the glorious Golden Gate, no matter where they live.

Bridges are remarkable structures. Often vast, immense, and sometimes beautiful, they can be icons of cities. David Blockley explains how to read a bridge, how they stand up, and how engineers design them to be so strong. He examines the engineering problems posed by bridges, and considers their cultural, aesthetic, and historical importance.

*Includes pictures *Includes accounts of the bridge's construction written by workers and the chief engineer

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*Includes a bibliography for further reading *Includes a table of contents "To this Gate I give the name of 'Chrysopylae, ' or Golden Gate, for the same reason that the harbor of Byzantium was called 'Chrysoceras, ' or Golden Horn." - Captain John C. Fremont, 1846 "[A] perpetual monument that will make this city's name ring around the world and renew the magical fame which the Golden Gate enjoyed in the days of '49." - S.F. Examiner editorial, March 24, 1925 San Francisco has countless landmarks and tourist spots, but few are associated with the city as the Golden Gate Bridge, one of the modern world's engineering marvels. The giant suspension bridge spans the San Francisco Bay, with a length of over 1.5 miles, a height of nearly 750 feet, and a width of around 100 feet. While it is a

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beautiful and instantly recognizable landmark, the Golden Gate Bridge was also a very practical one born of necessity. After the California Gold Rush helped turn San Francisco into a destination site, connecting people on both sides of the beautiful Golden Gate Strait became vitally important. There was a consistent ferry service in the area, but the advent of automobiles made a bridge even more imperative. At the same time, no one in the world had ever successfully built a bridge as long as this one would be, and indeed, no one else would for another three decades after the Golden Gate Bridge opened. Given its size, it should come as little surprise that the Golden Gate Bridge was one of the most ambitious and expensive projects of its age. Indeed, it would take nearly 20 years from the time the

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bridge was proposed to its grand opening, and it cost hundreds of millions of dollars (the equivalent of several billion today). When it finally opened in 1937, Joseph Strauss, the man most responsible for the bridge, remarked, "This bridge needs neither praise, eulogy nor encomium. It speaks for itself. We who have labored long are grateful. What Nature rent asunder long ago, man has joined today." The Golden Gate Bridge: The History of San Francisco's Most Famous Bridge chronicles the story of how one of America's most famous bridges was built. Along with pictures of important people, places, and events, you will learn about the Golden Gate Bridge like never before, in no time at all. The San Francisco-Oakland Bay Bridges of 1936 and 2013 Master Builder

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Portraits of Garden State Crossings

The Brooklyn Bridge and the Golden Gate Bridge
Bridges

Arizona was once just a passage for pioneers headed west for gold, religious freedom, and cheap land. Native Americans had lived in and explored the territory for years, but it was Manifest Destiny and the western expansionist philosophy of the burgeoning US government that created the impetus for better and faster routes across the vast territory with its topographical challenges. In the 1880s, the railroads first booted their way across the landscape, following historic trails before the highways were built. The Grand Canyon and Colorado River were

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obvious challenges, but there were also seasonal waterways that needed crossings. The history of the state unfolds with this book, profiling the bridges that define these historic transportation routes. Many of them have been proudly restored by their communities or the state, while others are gone or are in a sad state of decline.

In this latest addition to his popular Who Built That? series, Didier Cornille presents ten of the most important bridges in the world, from the Brooklyn to the Golden Gate; from the first in cast iron to the longest in concrete; from small footbridges to the tallest in the world. Cornille introduces each engineer or architect and the main concepts of their

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work through charming step-by-step drawings and accessible text. Who Built That? Bridges is a fun primer for children of all ages interested in learning about these incredible structures and the engineering and design concepts behind each one. A detailed account of the construction of the Brooklyn Bridge providing background on its engineering history as well as the political and social climate of the late-nineteenth century. Reissue. 10,000 first printing.

Bridges are more than just a way to get from place to place; they are amazing feats of engineering. From the longest bridges to the oldest bridges, sea bridges to landmark bridges, these engineering marvels have

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helped to shape our world. Brilliant photographs and graphic organizers, paired with exciting fun facts, will entertain and educate readers. Young engineers will learn about the science behind bridges, the obstacles of construction, and successes in bridge technology from ancient times until today.

Spanning the World

Suicide on the Golden Gate Bridge

An Introduction to Ten Great Bridges and Their Designers

Engineering Marvels: Bridges Around the World:

Understanding Fractions

Bridges of Paris

Describes bridges throughout the world, discussing

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materials and building technologies, functions and locations of important bridges, and examples of famous bridges in history.

More than 650 landmarks are covered, ranging from ancient monuments such as Stonehenge, to contemporary engineering feats such as the World Trade Center in New York City. The concisely-written entries describe when the landmark was built, who built it, why it was built, its dimensions, how it was constructed, and any problems encountered during construction. Additional features include: numerous photographs; biographies of important builders and designers; glossary; chronology of dates in civil

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engineering from 3000 BC to the present; listings of tallest buildings, longest bridges, and highest dams, and a geographical index which locates the structures by country.

Bridges and tunnels have changed the landscape of transportation and are high-interest topics for young people. They are also excellent examples of the lasting improvement that science, technology, engineering, and math can make in people's lives. Aligned with the NextGen Science Standards, this volume examines the work of early engineers and mathematicians in devising successful bridges and tunnels, as well as the advancements in building

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materials used over time and the creative challenges experts face today. It will ground young readers in history while introducing up-and-coming innovations.

"'Bridges of the world' brings together the most remarkable bridges ever built. From simple prehistoric causeways through to recent marvels of modern engineering, they are beautiful, often astonishing, inspiring and remarkably varied in their construction, use and purpose. 'Bridges of the world' includes an introductory essay on the history of bridge building and provides fascinating stories and details about where, when and why different

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bridges were constructed."--Back cover.

20 Fun Facts about Famous Bridges

Bridges, Tunnels, Dams, Roads and Other Structures

The Principles of Psychology

The Brooklyn Bridge

An Illustrated History

This series focuses on structures such as bridges, skyscrapers, tunnels and stadiums, describing how these engineering marvels were designed and built. Each title in 'Superstructures' is packed with facts and information and contains full-colour photographs and technical drawings.

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Famous Bridges of the World Measuring Length, Weight, and Volume
The Rosen Publishing Group, Inc

Furnishes a photographic journey across New Jersey's six thousand bridges, some of which are steeped in history, dating back to the colonial era and the Revolutionary War, and some recognized worldwide for their size or significance in the annals of engineering.

Guess how many vehicles drive across the Golden Gate Bridge each year?

Who Built That? Bridges

The World's Most Amazing Structures

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Their Design and Construction Bridges that Changed the World Famous Bridges of the World

"A book to delight the heart and eye of a pontist whether he be an admirer and lover of bridges or a designer and builder. . . ."--Saturday Review of Literature
This profusely illustrated work describes the fundamental principles involved in the design of bridges, presents the historical background of the modern bridge, and includes a profusion of illustrations documenting bridges of all types. Spans from around the world are depicted, among them Lucerne's medieval Kapellbrücke; the magnificent Maximiliansbrücke in Munich; the unusual "honeycomb"

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bridge between Orr's Island and Bailey Island off the Maine coast; and the George Washington Bridge, at the time of its construction, the world's longest steel suspension bridge. 401 black-and-white illustrations.

Most of us go over bridges without giving them a second thought. But some bridges are engineering wonders and are extraordinary to behold. Put on your hard hat and go behind the scenes to find out how and why some of the world's most famous bridges were built. Explore the design, construction, and engineering processes that went into creating some of these marvelous bridges. Extraordinary Bridges will leave you with a better understanding and a greater appreciation of these

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amazing structures.

Bridges are one of the most important artefacts constructed by man, the structures having had an incalculable effect on the development of trade and civilisation throughout the world. Their construction has led to continuing advances in civil engineering technology, leading to bigger spans and the use of new materials. Their failures, too, whether from an inadequate understanding of engineering principles or as a result of natural catastrophes or warfare, have often caused immense hardship as a result of lost lives or broken communications. In this book, a sister publication to his earlier An Encyclopaedia of British Bridges (Pen &

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Sword 2019), David McFetrich gives brief descriptions of some 1200 bridges from more than 170 countries around the world. They represent a wide range of different types of structure (such as beam, cantilever, stayed and suspension bridges). Although some of the pictures are of extremely well-known structures, many are not so widely recognisable and a separate section of the book includes more than seventy lists of bridges with distinctly unusual characteristics in their design, usage and history.

Describes some of the world's most fascinating structures, including the tallest buildings, amazing bridges, magnificent castles and palaces, an

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underground city, and structures that are underwater and another that is orbiting Earth.

The History of America's Most Famous Bridges

The STEM of Bridges and Tunnels

This Bridge Will Not Be Gray

Reference Guide to Famous Engineering Landmarks of the World

Bridges of the World

Uses some of the most famous bridges in the world as examples to demonstrate the math skills required to design them.

This visual history of the world 's landmark bridges is thoroughly revised and updated since its initial

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publication with all-new photographs and features cutting edge work by today's international superstars of architecture and engineering. Spanning two-thousand years of technological and aesthetic triumphs, Bridges stands as the most thorough, authoritative, and gorgeous book on the subject, 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 take shape; and lively commentary on each explores its importance and historic context. Throughout, informative profiles, features, and statistics make Bridges an invaluable reference as well as a visual feast. Technological

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advances, structural daring, and artistic vision have propelled the evolution of bridge design around the world. The last thirty years has seen the construction of masterpieces such as the Zakim Bridge that forever changed the city of Boston; Gateshead Millennium Bridge in England, a pedestrian tilt bridge that closes like an eye when it is raised; the Millau Viaduct in Tran Valley, France, which is the tallest cable-stay bridge in world; and the 102-mile Danyand-Kunshan Grand Bridge in China, the longest in the world. This revised edition features new profiles on these amazing spans, as well as beloved landmarks, such as the Golden Gate and the Brooklyn Bridge.

Contains 40 leaves of cut-out models of bridges

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(including 5 acetate sheets) and automatic LED lights for towers of the Golden Gate Bridge. Text includes history of each bridge and instructions on how to assemble the models.

Building bridges across rivers, canyons, straits and sea represents one of man's greatest endeavours. It has stretched human ingenuity, engineering and material technology to their utmost limits. Their creation has been driven by man's desire, from the earliest times, to make lines of communication possible by foot, horse or engine. Bridges have altered history by joining communities together, extending trade and transporting water to villages and cities. Some are of breathtaking beauty and it is little wonder that they rank among the

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world's most admired structures. As Marcus Binney writes, 'Each one is remarkable in its own way, each a response to a challenge and perhaps the realization of a dream.' This book looks at more than two hundred bridges spanning the world and the centuries. Here you will find, amongst others, an Inca suspension bridge made from grass ropes; the mile-long Roman aqueduct at Caesarea; the bridges of Venice; France's famous Millau Viaduct; the doubledecker, transporter, lift and stilt bridges produced by German precision engineering; Spain's Acueducto del Aguila (glowing in a bright livery of yellow and terracotta red); the awe-inspiring cantilever bridges built by railway engineers across major rivers in North America and India, and the world's longest

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suspension bridge at Kobe in Japan.

The History of San Franciscos Most Famous Bridge bridges

The Science of How and Why They Were Built

Fabulous Bridges

20 Fun Facts About Famous Bridges

Describes the construction of the Brooklyn Bridge, from its conception by John Roebling in 1852 through, after many setbacks, its final completion under the direction of his son, Washington, in 1883.

Bridges of Paris is a large-format photography book with over 350 original images which casts new illumination on the City of Light. The 37 bridges over the Seine River emerge as beautiful,

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historic destinations rather than unnoticed thoroughfares. The book features stunning portraits of each bridge as well as intimate riverside moments. Once you've experienced this river tour, you will never see Paris the same way again.

Everyone knows bridges are to cross -- to get to the other side. From a simple log to woven webs of steel, bridges reflect our values, our lifestyles. Feast your eyes on these bridges from around the world, all painstakingly created with intricately cut paper, and you will come to realize that crossing is only one reason for having a bridge.

Daring constructions - important routes - lifelines: 50 famous bridges and their stories. A survey of the world's most handsome and important bridges. Informative texts describing each bridge's

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origin and history. Richly illustrated, including plans and sketches

A Book of Bridges

The Final Leap

Measuring Length, Weight, and Volume

The Colorado Engineer

A History of the World's Most Spectacular Spans

Profiles ten of the world's most distinctive bridges.

A Tale of Two Bridges

Arizona's Historic Bridges

The Epic Story of the Building of the Brooklyn Bridge

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The Science and Art of the World's Most Inspiring Structures

Bridges are to Cross