

Why Buildings Fall Down How Structures Fail Matthys Levy

In Berlin, decrepit structures do not always denote urban blight. Decayed buildings are incorporated into everyday life as residences, exhibition spaces, shops, offices, and as leisure space. As nodes of public dialogue, they serve as platforms for dissenting views about the future and past of Berlin. In this book, Daniela Sandler introduces the concept of counterpreservation as a way to understand this intentional appropriation of decrepitude. The embrace of decay is a sign of Berlin's iconoclastic rebelliousness, but it has also been incorporated into the mainstream economy of tourism and development as part of the city's countercultural cachet. Sandler presents the possibilities and shortcomings of counterpreservation as a dynamic force in Berlin and as a potential concept for other cities. Counterpreservation is part of Berlin's fabric: in the city's famed Hausprojekte (living projects) such as the Køpi, Tuntenhaus, and KA 86; in cultural centers such as the Haus Schwarzenberg, the Schokoladen, and the legendary, now defunct Tacheles; in memorials and museums; and even in commerce and residences. The appropriation of ruins is a way of carving out affordable spaces for housing, work, and cultural activities. It is also a visual statement against gentrification, and a complex representation of history, with the marks of different periods—the nineteenth century, World War II, postwar division, unification—on display for all to see. Counterpreservation exemplifies an everyday urbanism in which citizens shape private and public spaces with their own hands, but it also influences more formal designs, such as the Topography of Terror, the Berlin Wall Memorial, and Daniel Libeskind's unbuilt redevelopment proposal for a site peppered with ruins of Nazi barracks. By featuring these examples, Sandler questions conventional notions of architectural authorship and points toward the value of participatory environments.

Why Buildings Fall Down How Structures Fail W. W. Norton & Company

Takes readers on a journey through the history of architectural and structural disasters, from the Parthenon to the Tower of Pisa to the Tacoma Narrows Bridge
Focusses on the connections between the planning and design

problems and the solutions that are finally reached when building bridges, tunnels, skyscrapers, domes, and dams.

How Buildings Learn

Counterpreservation

The Lives and Deaths of History's Greatest Buildings

The New Science of Strong Materials

A Young Man's Voice from the Silence of Autism

understanding the basics

"This major new collection introduces architecture to the beginning student or anyone who wants to learn about the built environment"--

Have you ever wondered how bridges don't fall down or how really old buildings stay standing up? In the How Do series, 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, arches, columns, and skyscrapers are explored through diagrams, photos, and informative and engaging text.

Dramatic, gripping, and moving, this sequel to the award-winning *We All Fall Down* will captivate readers. It's September 12th, 2001, and New York City is at a standstill: somber, bleak and shocked in the aftermath of the World Trade Center attacks. Will knows he and his father are lucky to have escaped; others, like his best friend James' father are still missing . . . and soon presumed to be dead. Poignant and dramatic, *United We Stand* is a young adult novel about heartache, self-discovery, and the power of friendship.

"A short, provocative manifesto for the programmable materials revolution from the visionary founder of MIT's Self-Assembly Lab"--

The Upside of Falling Down

Steel, Concrete, and Composite Systems

How Was That Built?

A Guide for Practicing Engineers and Students

Why Buildings Fall Down

The Strength of Architecture

From the author of the bestselling *The Reason I Jump*, an extraordinary self-portrait of a young adult with autism "Essential reading for parents and teachers of those with autism who remain nonverbal."—Temple Grandin Naoki Higashida was only thirteen when he wrote *Reason I Jump*, a revelatory account of autism from the inside by a nonverbal Japanese man, which became an international success. Now, in *Fall Down 7 Times Get Up 8*, he shares his thoughts and experiences as a young man living each day with severe autism. In short, powerful chapters, Higashida explores school memories, family relationships, the exhilaration of travel, and the difficulties of speech. He also allows readers to experience profound moments we take for granted, like the thought-steps necessary for him to realize that it's raining outside. Acutely aware of how strange his behavior can appear to others, he aims throughout to foster a better understanding of autism and to encourage society to see people with disabilities as people, not as problems. With an introduction by the bestselling novelist David Mitchell, *Fall Down 7 Times Get Up 8* also includes a dreamlike short story that Higashida wrote especially for the U.S. edition. Both moving and of practical use, this book

opens a window into the mind of an inspiring young man who meets every challenge with tenacity and good humor. However often he falls down, he always gets back up. Praise for *Fall Down 7 Times Get Up 8* “[Naoki Higashida’s] success as a writer now transcends his diagnosis. . . . His relative isolation—with words as his primary connection to the outside world—has allowed him to fully develop the powers of observation that are necessary for writing, and he has developed rich, deep perspectives on ideas that many take for granted. The diversity of Higashida’s writing, in both subject and style, fits together like a jigsaw puzzle of life put in place with humor and thoughtfulness.”—The Japan Times “Profound insights about what the struggle of living with autism is really like . . . Once again, the invitation to step inside Higashida’s mind is irresistible.”—London Evening Standard “Naoki Higashida’s lyrical and heartfelt account of his condition is a gift to anyone involved with the same challenges. . . . Higashida shows a delicate regard for the difficulties his condition creates . . . and is adept at explaining his experiences in language that makes sense to neurotypicals.”—The Guardian

This new edition of J. E. Gordon's classic introduction to the properties of materials used in engineering answers some fundamental and fascinating questions about how the material world around us functions. In particular, Gordon focuses on so-called strong materials such as metals, wood, ceramics, glass, and bone. For each material in question, Gordon explains the unique physical and chemical basis for its inherent structural qualities in irrepressibly fresh and simple terms. He also shows how an in-depth understanding of these materials' intrinsic strengths (and weaknesses) guides our engineering choices, allowing us to build structures that support our modern society. Philip Ball's new introduction describes Gordon's career and the impact of his innovations in materials research, while also discussing how the field has evolved since Gordon wrote this enduring example of first-rate scientific communication.

An examination of the failure of some architectural designs presents more than two hundred illustrations and takes readers on a journey through the history of architectural and structural disasters, from the Parthenon to the Tower of Pisa.

Traces the development of architectural structure, ranging from the nomad's simple tents to the Sears Tower

Collapse

A Guide to the New Materials Revolution

They All Fall Down

This Gulf of Fire

Architectural Decay in Berlin since 1989

Provides the final report of the 9/11 Commission detailing their findings on the September 11 terrorist attacks.

Examines first-hand accounts, architectural designs, causes, and follow-up investigations by forensic engineers into such structural collapses as the Hyatt Regency, Point Pleasant Bridge, and Vaiont Dam.

This is a one-stop book for knowing everything important about building structures. Self-contained and with no prerequisites needed, it is suitable for both general readers and building professionals. follow the history of structural understanding; grasp the concepts of structural behaviour via step-by-step explanations; apply these concepts to a simple

building; see how these concepts apply to real buildings, from Durham Cathedral to the Bank of China; use these concepts to define the design process; see how these concepts inform design choices; understand how engineering and architecture have diverged, and what effect this had; learn to do simple but relevant numerical calculations for actual structures; understand when dynamics are important; follow the development of progressive collapse prevention; enter the world of modern structural theory; see how computers can be used for structural analysis; learn how to organise and design a successful project. With more than 500 pages and over 1100 user-friendly diagrams, this book is a must for anyone who would like to understand the fascinating world of structures.

"On All Saints Day of 1755, the tremors from a magnitude 8.5 earthquake swept furiously from its epicenter in the Atlantic Ocean toward the Iberian Peninsula. Nowhere was it felt more than in Lisbon, then the thriving capital of a great global empire. In a few minutes most of Lisbon was destroyed--but that was only the beginning. A tsunami swept away most of the ruined coast along the Tagus River and carried untold souls out to sea. When fire broke out across the city, the surviving Lisboetas were subject to a firestorm reaching temperatures over 1,832 degrees F. Drawing on a wealth of new sources, on modern science (geology did not exist then), and on a sophisticated grasp of Portuguese history, Molesky gives us the definitive account of the destruction, of history's first international relief effort, and of the dampening effects these events had on the optimistic spirit of the Enlightenment"--Provided by publisher.

Final Report of the National Commission on Terrorist Attacks Upon the United States
We All Fall Down

Ashes, Ashes, We All Fall Down

Structures or Why things don't fall down

The 9/11 Commission Report

The Destruction of Lisbon, Or Apocalypse in the Age of Science and Reason

Okonkwo is the greatest warrior alive, famous throughout West Africa. But when he accidentally kills a clansman, things begin to fall apart. Then Okonkwo returns from exile to find missionaries and colonial governors have arrived in the village. With his world thrown radically off-balance he can only hurtle towards tragedy. Chinua Achebe's stark novel reshaped both African and world literature. This arresting parable of a proud but powerless man witnessing the ruin of his people begins Achebe's landmark trilogy of works chronicling the fate of one African community, continued in Arrow of God and No Longer at Ease.

Explains how tents, houses, stadiums, and bridges are built, and how to build models of such structures using materials found around the home.

A novel from one of the country's most prolific and popular YA authors, this book, set in New York City on September 11th, shows us how the experiences of that day profoundly changed one teen's life and relationships. Today is September 10, 2001, and Will, a grade nine student, is spending the day at his father's workplace tomorrow. As part of a school assignment, all the students in his class will be going to their parents tomorrow, but Will isn't excited about it--he'd rather sleep in and do nothing with his friends. His father doesn't even have an exciting job like his best friend James's father who is a fireman. Will's dad works for an international

trading company and has to wake up early every morning to commute to his office on the eighty-fifth floor in the south building of the World Trade Center in Manhattan. Will doesn't see his father very often because of the hours he puts in at the office. He doubts that his dad will bother making time for him tomorrow even when they are supposed to be spending the day together. In this fast-paced and dramatic new novel by bestselling author Eric Walters, Will discovers a new side of his father during an event that continues to affect the world. As Will's new teacher says, tomorrow "might be an experience that changes your entire life."

Imagine you woke up one morning to 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 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 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 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 reveals the extraordinary secret lives of structures.

Why Conspiracy Theories Can't Stand Up to the Facts

The Natural Order of Architecture

Building Structures

Things Fall Together

When Buildings Fall Down

Or Why You Don't Fall Through the Floor

An essential exploration of the engineering aesthetics of celebrated structures from long-span bridges to high-rise buildings What do structures such as the Eiffel Tower, the Brooklyn Bridge, and the concrete roofs of Pier Luigi Nervi have in common? According to The Tower and the Bridge, all are striking examples of structural art, an exciting area distinct from either architecture or machine design. Aided by stunning photographs, David Billington discusses the technical concerns and artistic principles underpinning the well-known projects of leading structural engineer-artists, including Othmar Ammann, Félix Candela, Gustave Eiffel, Fazlur Khan, Robert Maillart, John Roebling, and many others. A classic work, The Tower and the Bridge introduces readers to the fundamental aesthetics of engineering.

Structural engineering is central to the design of a building. How the building behaves when subjected to various forces – the weight of the materials used to build it, the weight of the occupants or the traffic it carries, the force of the wind etc – is fundamental to its stability. The alliance between architecture and structural engineering is therefore

critical to the successful design and completion of the buildings and infrastructure that surrounds us. Yet structure is often cloaked in mathematics which many architects and surveyors find difficult to understand. *How Structures Work* has been written to explain the behaviour of structures in a clear way without resorting to complex mathematics. This new edition includes a new chapter on construction materials, and significant revisions to, and reordering of the existing chapters. It is aimed at all who require a good qualitative understanding of structures and their behaviour, and as such will be of benefit to students of architecture, architectural history, building surveying and civil engineering. The straightforward, non-mathematical approach ensures it will also be suitable for a wider audience including building administrators, archaeologists and the interested layman.

The first book in a dark fantasy YA duology by Rose Szabo, the author of *What Big Teeth*, about the power and danger of stories and the untold costs of keeping magic alive, perfect for fans of Rory Power and Marie Rutkoski. In *River City*, where magic used to thrive and is now fading, the witches who once ruled the city along with their powerful King have become all but obsolete. The city's crumbling government is now controlled primarily by the new university and teaching hospital, which has grown to take over half of the city. Moving between the decaying Old City and the ruthless New, four young queer people struggle with the daily hazards of life—work, school, dodging ruthless cops and unscrupulous scientists—not realizing that they have been selected to play in an age-old drama that revives the flow of magic through their world. When a mysterious death rocks their fragile peace, the four are brought into each other's orbits as they uncover a deeper magical conspiracy. Devastating, gorgeous, and utterly unique, *We All Fall Down* examines the complex network of pain created by power differentials, even between people who love each other—and how it is possible to be queer and turn out just fine. The greatest story never told, this formidable and gorgeously written biography documents the amazing and controversial short life of Calixa Lavallée—the composer of "O Canada"—and the tumult of 19th-century North America. He was a composer, a performer, an entrepreneur, and an educator; played pop and classical music; and appeared in his quasi-colonial society, tragically, just ahead of his time. Calixa Lavallee, the French Canadian composer of "O Canada," has a compelling, almost unbelievable personal story. He left home at 12 and worked as a blackface minstrel, travelling throughout the United States for more than a decade; he fought and was injured in the American Civil War in perhaps the most important battle of that war, at Antietam Creek; performed for President Lincoln several times; produced the first opera in Quebec and wrote two of his own; became a leading figure in American music education,

representing American music in London; journeyed to Paris to study for two years; tried and failed to create a Quebec national conservatory. And he wrote our national anthem. But Lavallée also represents all the contradictions and confusions of Canadian identity as our country came together in the last half of the nineteenth century. To understand "O Canada," and to understand the man who wrote it, is to return to the Canada of the mid-nineteenth century, a Canada just forming as a nation, bringing together ancient racial hatreds and novel political possibilities, as culture faced culture, religion faced religion, economy faced economy. Calixa Lavallée is the most famous Canadian you have never heard of, living a life and ultimately composing a song that stands the test of time.

Howard Hughes: His Life and Madness

Tall Building Design

What Happens After They're Built

The Tower and the Bridge

Building Big

United We Stand

I am very much aware that it is an act of extreme rashness to attempt to write an elementary book about structures. Indeed it is only when the subject is stripped of its mathematics that one begins to realize how difficult it is to pin down and describe those structural concepts which are often called 'elementary'; by which I suppose we mean 'basic' or 'fundamental'. Some of the omissions and oversimplifications are intentional but no doubt some of them are due to my own brute ignorance and lack of understanding of the subject. Although this volume is more or less a sequel to *The New Science of Strong Materials* it can be read as an entirely separate book in its own right. For this reason a certain amount of repetition has been unavoidable in the earlier chapters. I have to thank a great many people for factual information, suggestions and for stimulating and sometimes heated discussions. Among the living, my colleagues at Reading University have been generous with help, notably Professor W. D. Biggs (Professor of Building Technology), Dr Richard Chaplin, Dr Giorgio Jeronimidis, Dr Julian Vincent and Dr Henry Blyth; Professor Anthony Flew, Professor of Philosophy, made useful suggestions about the last chapter. I am also grateful to Mr John Bartlett, Consultant Neurosurgeon at the Brook Hospital. Professor T. P. Hughes of the University of the West Indies has been helpful about rockets and many other things besides. My secretary, Mrs Jean Collins, was a great help in times of trouble. Mrs Nethercot of Vogue was kind to me about dressmaking. Mr Gerald Leach and also many of the editorial staff of Penguins have exercised their accustomed patience and helpfulness. Among the dead, I owe a great deal to Dr Mark Pryor - lately of Trinity College, Cambridge - especially for discussions about biomechanics which extended over a period of nearly thirty years. Lastly, for reasons which must surely be obvious, I owe a humble oblation to Herodotus, once a citizen of Halicamassus.

Analyzes and refutes twenty of the most predominant theories involving the United States government's role in perpetrating the September 11, 2001 terrorist

attacks.

Addresses the Question Frequently Proposed to the Designer by Architects: "Can We Do This? Offering guidance on how to use code-based procedures while at the same time providing an understanding of why provisions are necessary, Tall Building Design: Steel, Concrete, and Composite Systems methodically explores the structural behavior of steel, concrete, and composite members and systems. This text establishes the notion that design is a creative process, and not just an execution of framing proposals. It cultivates imaginative approaches by presenting examples specifically related to essential building codes and standards. Tying together precision and accuracy—it also bridges the gap between two design approaches—one based on initiative skill and the other based on computer skill. The book explains loads and load combinations typically used in building design, explores methods for determining design wind loads using the provisions of ASCE 7-10, and examines wind tunnel procedures. It defines conceptual seismic design, as the avoidance or minimization of problems created by the effects of seismic excitation. It introduces the concept of performance-based design (PBD). It also addresses serviceability considerations, prediction of tall building motions, damping devices, seismic isolation, blast-resistant design, and progressive collapse. The final chapters explain gravity and lateral systems for steel, concrete, and composite buildings. The Book Also Considers: Preliminary analysis and design techniques The structural rehabilitation of seismically vulnerable steel and concrete buildings Design differences between code-sponsored approaches The concept of ductility trade-off for strength Tall Building Design: Steel, Concrete, and Composite Systems is a structural design guide and reference for practicing engineers and educators, as well as recent graduates entering the structural engineering profession. This text examines all major concrete, steel, and composite building systems, and uses the most up-to-date building codes.

The life that inspired the major motion picture The Aviator, starring Leonardo DiCaprio and directed by Martin Scorsese. Howard Hughes has always fascinated the public with his mixture of secrecy, dashing lifestyle, and reclusiveness. This is the book that breaks through the image to get at the man. Originally published under the title Empire: The Life, Legend, and Madness of Howard Hughes.

All Fall Down

Structures

How Buildings Work

How Do Bridges Not Fall Down?

Debunking 9/11 Myths

Fallen Glory

Illustrated with hundreds of illuminating line drawings, this classic guide reveals virtually every secret of a building's function: how it stands up, keeps its occupants safe and comfortable, gets built, grows old, and dies--and why some buildings do this so much better than others. Drawing on things he's learned from the many buildings he himself designed (and in some cases built with his own hands), Edward Allen explains complex phenomena such as the role of the sun in heating buildings and the range of structural devices that are used for support, from trusses and bearing walls to post-tensioned

concrete beams and corbeled vaults. He stresses the importance of intelligent design in dealing with such problems as overheating and overcooling, excessive energy use, leaky roofs and windows, fire safety, and noisy interiors. He serves up some surprises: thermal insulation is generally a better investment than solar collectors; board fences are not effective noise barriers; there's one type of window that can be left open during a rainstorm. The new edition emphasizes "green" architecture and eco-conscious design and construction. It features a prologue on sustainable construction, and includes new information on topics such as the collapse of the World Trade Center, sick building syndrome, and EIFS failures and how they could have been prevented. Allen also highlights the array of amazing new building materials now available, such as self-cleaning glass, photovoltaics, transparent ceramics, cloud gel, and super-high-strength concrete and structural fibers. Edward Allen makes it easy for everyone--from armchair architects and sidewalk superintendents to students of architecture and construction--to understand the mysteries and complexities of even the largest building, from how it recycles waste and controls the movement of air, to how it is kept alive and growing. For Clementine Haas, finding herself is more than a nice idea. Ever since she woke up in an Irish hospital with complete amnesia, self-discovery has become her mission. They tell her she's the lone survivor of a plane crash. They tell her she's lucky to be alive. But she doesn't feel lucky. She feels...lost. With the relentless Irish press bearing down on her, and a father she may not even recognize on his way from America to take her home, Clementine assumes a new identity and enlists a blue-eyed Irish stranger, Kieran O'Connell, to help her escape her forgotten life...and start a new one. Hiding out in the sleepy town of Waterville, Ireland, Clementine discovers there's an upside to a life that's fallen apart. But as her lies grow, so does her affection for Kieran, and the truth about her identity becomes harder and harder to reveal, forcing Clementine to decide: Can she leave her past behind for a new love she'll never forget?

Buildings have often been studied whole in space, but never before have they been studied whole in time. *How Buildings Learn* is a masterful new synthesis that proposes that buildings adapt best when constantly refined and reshaped by their occupants, and that architects can mature from being artists of space to becoming artists of time. From the connected farmhouses of New England to I.M. Pei's Media Lab, from "satisficing" to "form follows funding," from the evolution of bungalows to the invention of Santa Fe Style, from Low Road military surplus buildings to a High Road English classic like Chatsworth—this is a far-ranging survey of unexplored essential territory. More than any other human artifacts, buildings improve with time—if they're allowed to. *How Buildings Learn* shows how to work with time rather than against it.

This overview of the analysis and design of buildings runs from basic principles and elementary structural analysis to the selection of structural systems and materials, and on to foundations and retaining structures. It presents a variety of approaches and methodologies while featuring realistic design examples. As a comprehensive guide and desk reference for practicing structural and civil engineers, and for engineering students, it draws on the author's teaching experience at The City College of New York and his work as a design engineer and architect. It is especially useful for those taking the National Council of Examiners for Engineering and Surveying SE exam.

The Stories Behind Amazing Structures

Why Buildings Stand Up

Richard Nickel's Struggle to Save America's Architecture

Fall Down 7 Times Get Up 8

Engineering the Taj Mahal

Elementary Structural Analysis and Design of Buildings

In a book that Business Insider noted as one of the "14 Books that inspired Elon Musk," J.E. Gordon strips engineering of its confusing technical terms, communicating its founding principles in accessible, witty prose. For anyone who has ever wondered why suspension bridges don't collapse under eight lanes of traffic, how dams hold back--or give way under--thousands of gallons of water, or what principles guide the design of a skyscraper, a bias-cut dress, or a kangaroo, this book will ease your anxiety and answer your questions. Structures: Or Why Things Don't Fall Down is an informal explanation of the basic forces that hold together the ordinary and essential things of this world--from buildings and bodies to flying aircraft and eggshells. In a style that combines wit, a masterful command of his subject, and an encyclopedic range of reference, Gordon includes such chapters as "How to Design a Worm" and "The Advantage of Being a Beam," offering humorous insights in human and natural creation. Architects and engineers will appreciate the clear and cogent explanations of the concepts of stress, shear, torsion, fracture, and compression. If you're building a house, a sailboat, or a catapult, here is a handy tool for understanding the mechanics of joinery, floors, ceilings, hulls, masts--or flying buttresses. Without jargon or oversimplification, Structures opens up the marvels of technology to anyone interested in the foundations of our everyday lives.

The Taj Mahal, a majestic mausoleum in India, continues to amaze visitors with its beauty nearly 400 years after its construction. Engineering the Taj Mahal discusses the emperor behind the famous structure, the precise engineering used by the designers, and the ways in which India is preserving the mausoleum so that it can continue to impress future generations. Easy-to-read text, vivid images, and helpful back matter give readers a clear look at this subject. Features include a table of contents, infographics, a glossary, additional resources, and an index. Aligned to Common Core Standards and correlated to state standards. Core Library is an imprint of Abdo Publishing, a division of ABDO.

A deadly contagion races through England... Isabel and her family have nowhere to run from a disease that has killed half of Europe. When the world she knows and loves ends for ever, her only weapon is courage. The Black Death of 1349 was the deadliest plague in human history. All Fall Down is a powerful and inspiring story of survival in the face of real-life horror.

This compelling biography covers Nickel's youth on Chicago's West Side, his army service in the mid-1940s, his studies at the Institute of Design, and his attempts to save buildings and salvage works of art until his death in 1972 while salvaging material from Sullivan's Stock Exchange Building. More than a biography, this book chronicles the early days of the historic preservation movement, interweaving portraits of other important figures such as Mayor Richard J. Daley, Laszlo Moholy-Nagy, and Aaron Siskind. Featured are more than 70 duotone photographs in a special "portfolio" section, printed on archival paper, taken by Nickel throughout his crusade to save Chicago's buildings. A remarkably low price for so much book. Annotation copyright by Book News, Inc., Portland, OR

Things Fall Apart

A Novel

Projects and Principles for Beginning Engineers and Architects

How Structures Fail

The New Art of Structural Engineering

Song of a Nation

An inviting, fascinating compendium of twenty-one of history's most famous lost

places, from the Tower of Babel to the Twin Towers Buildings are more like us than we realize. They can be born into wealth or poverty, enjoying every privilege or struggling to make ends meet. They have parents—gods, kings and emperors, governments, visionaries and madmen—as well as friends and enemies. They have duties and responsibilities. They can endure crises of faith and purpose. They can succeed or fail. They can live. And, sooner or later, they die. In *Fallen Glory*, James Crawford uncovers the biographies of some of the world's most fascinating lost and ruined buildings, from the dawn of civilization to the cyber era. The lives of these iconic structures are packed with drama and intrigue. Soap operas on the grandest scale, they feature war and religion, politics and art, love and betrayal, catastrophe and hope. Frequently their afterlives have been no less dramatic—their memories used and abused down the millennia for purposes both sacred and profane. They provide the stage for a startling array of characters, including Gilgamesh, the Cretan Minotaur, Agamemnon, Nefertiti, Genghis Khan, Henry VIII, Catherine the Great, Adolf Hitler, and even Bruce Springsteen. The twenty-one structures Crawford focuses on include The Tower of Babel, The Temple of Jerusalem, The Library of Alexandria, The Bastille, Kowloon Walled City, the Berlin Wall, and the Twin Towers of the World Trade Center. Ranging from the deserts of Iraq, the banks of the Nile and the cloud forests of Peru, to the great cities of Jerusalem, Istanbul, Paris, Rome, London and New York, *Fallen Glory* is a unique guide to a world of vanished architecture. And, by picking through the fragments of our past, it asks what history's scattered ruins can tell us about our own future.

Design and Behaviour from Bridges to Buildings

Introduction to Architecture

Or Why Things Don't Fall Down

The Extraordinary Life and Times of Calixa Lavallée, the Man Who Wrote O Canada

The Art of Construction

How Structures Work