

Rise Of The Federation Tower Of Babel Star Trek Enterprise Series Book 16

The Romulan Star Empire engages in all out war against Earth, determined once and for all to stop the human menace from spreading across the galaxy. Earth stands alone. The Coalition of Planets has shattered, with Vulcan, Andor, and Tellar abrogating the treaty. Their pledge to come to the mutual defense of any power that is attacked has been shunted aside. Horrified by how easily the Romulans can seize control of their advanced starships, turning them into weapons, Andor and Tellar have joined Vulcan on the sidelines. Humanity is now the only thing that stands between the Romulan Star Empire and total domination of the galaxy. To drive humans from the stars, the Romulans employ ruthless and murderous tactics. . . . and even dare to strike on the Vulcan homeworld with the hopes of demoralizing their Vulcan brethren. But when they win their victories, the Romulans carry their all-out war assault closer to the heart of humanity—Earth. But the tattler remains of Starfleet stand unwavering, with the resolution that never again would any enemy strike ever reach Earth. On the front lines of the Earth-Romulan War is the United Earth flagship, the Starship Enterprise. Her captain, Jonathan Archer, has seen his vessel of exploration become a battleship. Once hailed for his work bringing the Coalition of Planets into existence, Archer is now a pariah. Undaunted, the captain keeps fighting, searching for allies and determined to do his duty: to save Earth and forge a new federation of planets.

As the Federation recovers from the devastating events of Star Trek: Destiny, Captain William Riker and the crew of the U.S.S. Titan are ordered to resume their deep-space assignment, reaffirming Starfleet's core principles of peaceful exploration. But even far from home on a mission of hope, the scars of the recent cataclysm remain with them as they slowly rebuild their lives. The planet Droplet is a world made mostly of water without a speck of solid ground. Life should not exist here, yet it thrives. Aili Lavena, Titan's aquatic navigator, spearheads the exploration of this mysterious world, facing the dangers of the wild, wild ocean. When one native species proves to be sentient, Lavena finds herself immersed in a delicate contact situation, and Riker is called away from Deanna Troi at a critical moment in their marriage. But when good intentions bring calamity, Lavena and Riker are cut off from the crew and feared lost. Troi must face a life-changing event without her husband, while the crew must brave the crushing pressures of the deep to undo the global chaos they have triggered. Stranded with her injured captain, Lavena must win the trust of the beings who control their fate -- but the price for Riker's survival may be the loss of everything he holds dear.

Each century has its own unique approach toward addressing the problem of high density and the 21st century is no exception. As cities try to cope with rapid population growth - adding 2.5 billion dwellers by 2050 - and grapple with destructive sprawl, politicians, planners and architects have become increasingly interested in the vertical city paradigm. Unfortunately, cities all over the world are grossly unprepared for integrating tall buildings, as these buildings may aggravate multidimensional sustainability challenges resulting in a "vertical sprawl" that could have worse consequences than "horizontal" sprawl. By using extensive data and numerous illustrations this book provides a comprehensive guide to the successful and sustainable integration of tall buildings into cities. A new crop of skyscrapers that employ passive design strategies, green technologies, energy-saving systems and innovative renewable energy offers significant architectural improvements. At the urban scale, the book argues that planners must integrate tall buildings with efficient mass transit, walkable neighbourhoods, cycling networks, vibrant mixed-use activities, iconic transit stations, attractive plazas, well-landscaped streets, spacious parks and engaging public art. Particularly, it proposes the Tall Building and Transit Oriented Development (TB-TOD) model as one of the sustainable options for large cities going forward. Building on the work of leaders in the fields of ecological and sustainable design, this book will open readers' eyes to a wider range of possibilities for utilizing green, resilient, smart, and sustainable features in architecture and urban planning projects. The 20 chapters offer comprehensive reading for all those interested in the planning, design, and construction of sustainable cities.

The book deals with the geotechnical analysis and design of foundation systems for high-rise buildings and other complex structures with a distinctive soil-structure interaction. The basics of the analysis of stability and serviceability, necessary soil investigations, important technical regulations and quality and safety assurance are explained and possibilities for optimised foundation systems are given. Additionally, special aspects of foundation systems such as geothermal activated foundation systems and the reuse of existing foundations are described and illustrated by examples from engineering practice.

Star Trek: The Next Generation: Greater than the Sum

The Man Without a Face

Star Trek: The Original series: Rihannsu: The Bleeding Voyages

A Portrait of the World Before the War, 1890-1914

Star Trek: Enterprise: Rise of the Federation: A Choice of Futures

When forces who oppose plans to bring the rich and powerful Rigel system into the fledgling Federation capture vital information and Starfleet personnel, captains Malcolm Reed and T'Pol and their crews work to rescue the captives.

In January 2002, forty-six-year-old Christa Worthington was found stabbed to death in the kitchen of her Truro, Cape Cod, cottage, her curly-haired toddler clutching her body. A former Vassar girl and scion of a prominent local family, Christa had abandoned a glamorous career as a fashion writer for a simpler life on the Cape, where she had an affair with a married fisherman and had his child. After her murder, evidence pointed toward several local men who had known her. Yet in 2005, investigators arrested Christopher McCowen, a thirty-four-year-old African-American garbage collector with no evidence of a IQ of 76. The local headlines screamed, "Black Trash Hauler Ruins Beautiful White Family" and "Black Murderer Apprehended in Fashion Writer Slaying," while the sole witness against McCowen was a DNA match showing that he'd had sex with Worthington prior to her murder. There were no fingerprints, no witnesses, and although the state medical examiner acknowledged there was no evidence of rape, the defendant was convicted after a five-week trial replete with conflicting testimony, accusations of crime scene contamination, and police misconduct—and was condemned to three lifetime sentences in prison with no parole. Rarely has a homicide trial been retraced so clearly through the prism of those who engineered it, and in Reasonable Doubt, bestselling author and biographer Peter Manso is determined to rectify what has become one of the most grossly unjust verdicts in modern trial history. In his riveting new book he bares the anatomy of a horrific murder—as well as the horrific cover-up by the victors, the Romulans carry their all-out war assault closer to the heart of humanity—Earth. But the tattler remains of Starfleet stand unwavering, with the resolution that never again would any enemy strike ever reach Earth. On the front lines of the Earth-Romulan War is the United Earth flagship, the Starship Enterprise. Her captain, Jonathan Archer, has seen his vessel of exploration become a battleship. Once hailed for his work bringing the Coalition of Planets into existence, Archer is now a pariah. Undaunted, the captain keeps fighting, searching for allies and determined to do his duty: to save Earth and forge a new federation of planets.

Don't Miss the Original Series Tom Clancy's Jack Ryan Starring John Krasinski! THE #1 NEW YORK TIMES BESTSELLING JACK RYAN NOVEL "A harrowing tale...Clancy keeps you riveted with political intrigue and military maneuvering [and] sends you rushing heading to the book's stunning conclusion."—USA Today Bestselling author Tom Clancy takes a bold, incisive look at what our nation's leaders are calling "the new world order." The time and place: a world at peace, where yesterday's enemies are tomorrow's allies. The players: Jack Ryan as the new U.S. President's National Security Advisor, and his CIA colleagues, John Clark and Domingo Chavez. The crisis: a shocking chain of events in which the wages of peace are as fully complex—and devastating—as those of war. "Debt of Honor

Russia has generally been neglected in the academic and policy discourse on regional integration in East Asia. This book fills this gap, with particular attention to the role of Pacific Russia in the deepening regional integration in East Asia. It examines the increasingly diverse foreign policy interests of Russia related to emerging economic and political realities of the world, and Russia's political role in regional integration in East Asia. Topics discussed include Russian strategic interests and security policy in East Asia generally, Russia's bilateral relations with China, Japan, and the Korean Peninsula, opportunities and challenges energy and immigration presents for Russia and its engagement with East Asia, and Russia's present and future roles in regional integration in East Asia.

Designing High-Density Cities for Social and Environmental Sustainability

Rise of the Federation: Patterns of Interference

Europe Real Estate Yearbook 2007

Rise of the Federation: Uncertain Logic

Dark Lord : the Rise of Darth Vader

Tall buildings are not the only solution for achieving sustainability through increased density in cities but, given the scale of current population shifts, the vertical city is increasingly being seen as the most viable solution for many urban centers. However, the full implications of concentrating more people on smaller plots of land by building vertically - whether for work, residential or leisure functions - needs to be better researched and understood. It is generally accepted that we need to reduce the energy equation -- in both operating and embodied terms - of every component and system in the building as an essential element in making it more sustainable. Mechanical HVAC systems (Heating, Ventilation and Air-Conditioning) in tall office buildings typically account for 30-40 percent of overall building energy consumption. The increased efficiency (or possibly even elimination) of these mechanical systems - through the provision of natural ventilation - could thus be argued to be the most important single step we could make in making tall buildings more sustainable. This guide sets out recommendations for every phase of the planning, construction and operation of natural ventilation systems in these buildings, including local climatic factors that need to be taken into account, how to plan for seasonal variations in weather, and the risks in adopting different implementation strategies. All of the recommendations are based on analysis of the research findings from richly-illustrated international case studies. Tried and tested solutions to real-life problems make this an essential guide for anyone working on the design and operation of tall buildings anywhere in the world. This is the first technical guide from the Council on Tall Buildings and Urban Habitat's Tall Buildings & Sustainability Working Group looking in depth at a key element in the creation of tall buildings with a much-reduced environmental impact, while taking the industry closer to an appreciation of what constitutes a sustainable tall building, and what factors affect the sustainability threshold for tall.

In this thrilling and eye-opening Star Trek: Enterprise novel, T'Pol finds herself torn between the teachings of Vulcan and the regulations of Starfleet. You are alone in the dark reaches of space, surrounded by aliens who do not understand who you are and what you are, and who will not accept your beliefs. Under such circumstances, an emotional human would feel lost, cut off, adrift, but Sub-Commander T'Pol is a Vulcan, and Vulcans control their emotions. However, no other Vulcan has served for longer than a few weeks on a human ship. Has she, as others imply, lost her way? Pulled, once again, into one of Captain Archer's dangerously impulsive attempts to make first contact, the sub-commander finds her life threatened. T'Pol reacts, draws her phase pistol and kills. It was a simple act of self-defense. But is killing ever simple? Has she forsaken the teachings of Surak? Determined to be true to her heritage, T'Pol forswears violence. She tells Captain Archer that never again will she kill—even if ordered. Is she, as Archer suspects, endangering the entire ship?

Compact living is sustainable living. High-density cities can support closer amenities, encourage reduced trip lengths and the use of public transport and therefore reduce transport energy costs and carbon emissions. High-density planning also helps to control the spread of urban suburbs into open lands, improves efficiency in urban infrastructure and services, and results in environmental improvements that support a higher quality of life in cities. Encouraging even requiring higher density development is a major policy and a central principle of growth management programmes used by planners all over the world. However, such density creates design challenges and problems. A collection of experts in each of the related architectural and planning areas examines these environmental and social issues, and argues that high-density cities are a sustainable solution. It will be essential reading for anyone with an interest in sustainable urban development.

An original novel set in the universe of Star Trek: Enterprise! A new nation has arisen from the ashes of the Romulan War: the United Federation of Planets, an unprecedented union of diverse species cooperating for the good of all. Admiral Jonathan Archer—the former captain of the Earth starship Enterprise, whose efforts made this union possible—envisions a vibrant Federation promoting galactic peace and a multippecies Starfleet dedicated to exploring strange new worlds. Archer's former crewmates, including Captain T'Pol of the U.S.S. Endeavour and Captain Malcolm Reed of the U.S.S. Pioneer, work with him to secure that bright future. Yet others within the Federation see its purpose as chiefly military, a united defense against a dangerous galaxy, while some of its neighbors view that military might with suspicion and fear. And getting the member nations, their space fleets, and even their technologies to work together as a unified whole is an ongoing challenge. When a new threat emerges from a force so alien and hostile that negotiation seems impossible, a group of unaligned worlds asks Starfleet to come to its defense, and the Federation's leaders seize the opportunity to build their reputation as an interstellar power. But Archer fears the conflict is building toward an unnecessary war, potentially taking the young nation down a path it was never meant to follow. Archer and his allies strive to find a better solution...but old foes are working secretly to sabotage their efforts and ensure that the great experiment called the Federation comes to a quick and bloody end.™, ®, & © 2013 CBS Studios, Inc. STAR TREK and related marks are trademarks of CBS Studios, Inc. All Rights Reserved.

Rise of the Federation: A Choice of Futures

Boy in the Tower

Star Trek: Enterprise: Rise of the Federation: High Rise Office Buildings

The Romulan War: To Brave the Storm

100 of the World's Tallest Buildings

Star Trek: Enterprise: Rise of the Federation: Tower of BabelSimon and Schuster

Darth Vader, the evil emperor's powerful enforcer, sets out to eliminate all resistance to the Empire, a mission that reveals his true strength and role as the Emperor's iron fist.

Captain Jonathan Archer and the crew of the Starship Enterprise find their way forward blocked by a mysterious alien vessel, piloted by a race they will soon come to know as the Antianna. Unable to decipher the alien ship's transmissions, unwilling to risk a battle, Enterprise is forced to veer from its planned course. Almost immediately, they find themselves in the heart of space ruled by the Thelasian Trading Confederacy, who have also had dealings with the Antianna. The Thelasian leader, Governor Maxim Sen, is in fact in the middle of organising a war against the Antianna, to eliminate the threat they pose to the Confederacy's trading routes. Archer suspects Sen has other motives as well. He also suspects that there is a reason for the Antianna's seemingly hostile posture. But with the assembled races of an entire sector against him, he needs more than just suspicions. He needs facts. And only one woman can give them to him: Ensign Hoshi Sato. If she can translate the Antianna language, peace may just be possible. If not, war - a devastating sector-wide war - will soon result.

When they first arrived, they came quietly and stealthily as if they tip-toed into the world when we were all looking the other way. Ade loves living at the top of a tower block. From his window, he feels like he can see the whole world stretching out beneath him. His mum doesnâe(tm) really like looking outside âe" but itâe(tm)s going outside that she hates. Sheâe(tm)s happier sleeping all day inside their tower, where itâe(tm)s safe. But one day, other tower blocks on the estate start falling down around them and strange, menacing plants begin to appear. Now their tower isnâe(tm)t safe anymore. Ade and his mum are trapped and thereâe(tm)s no way out. . . .

Star Trek

Rise of the Federation: Live by the Code

Star Wars

The Proud Tower

Star Trek: Mere Anarchy

Barbara Tuchman's The Proud Tower is a haunting account of Britain on the cusp of total war - reissued for the 2014 Centenary. The last government in the Western world to possess all the attributes of aristocracy in working condition took office in England in June of 1895. . . . In this now classic work, Pulitzer prize-winning historian Barbara Tuchman explores the quarter century leading up to the First World War, from the dying embers of the British aristocracy to the fitful eruptions of the anarchist movement. She provides a compelling portrait of the key figures and conflicting ideologies of this time, giving an intimate view of an epoch that was soon to be swept away by the tide of history. Her intention is to make the age alive for us, and in that she abundantly succeeds' Daily Telegraph Tuchman has a gift of recreating a period and a mood by an inspired selection of detail and sheer narrative sweep. A volcano of a book' Evening Standard 'Impeccable scholarship and literary polish. Impossible to read without pleasure and admiration' New York Times Barbara Tuchman achieved prominence as a historian with the Zimmerman Telegram and international fame with the Pulitzer-Prize winning The Guns of August. She is also the author of Stilwell and the American Experience in China (also awarded the Pulitzer Prize), A Distant Mirror and The March of Folly. She died in 1989. The Guns of August and The Zimmerman Telegram are published by Penguin.

Annie Besant began her career as a political activist, working on issues such as suffrage, women's reproductive rights, and socialism. Along the way, she encountered the New Thought movement and developed a strong interest in spirituality. Within a few years, she had established herself as an international leader in the movement. This volume collects a series of lectures on the subject that Besant presented in London in 1907.

To protect the cargo ships essential to the continuing existence of the fledgling Coalition of Planets, the captains of the United Earth's Starfleet are ordered to interstellar picket duty, with little more to do than ask "Who goes there?" into the darkness of space. Captain Jonathan Archer of the Enterprise™ seethes with frustration, wondering if anyone else can see what he sees. A secret, closed, militaristic society, convinced that their survival hangs by a thread, who view their neighbors as a threat to their very existence -- the Spartans of ancient Greece, the Russians of the old Soviet Union, the Koreans under Kim Il-sung -- with only one goal: attain ultimate power, no matter the cost. The little-known, never-seen Romulans seem to live by these same principles. The captain realizes that the bond between the signers of the Coalition charter is fragile and likely to snap if pushed. But he knows that the Romulans are hostile, and he believes they are the force behind the cargo ship attacks. If asked, Archer can offer no proof without endangering his friend's life. To whom does he owe his loyalty: his friend, his world, the Coalition? And by choosing one, does he not risk losing all of them? What is the solution to a no-win scenario?

The Starship Rhea has discovered a cluster of carbon planets that seems to be the source of the quantum energies rippling through a section of space. A landing party finds unusual life-forms inhabiting one of the planets. One officer, Lieutenant T'Ryssa Chen -- a half-Vulcan -- makes a tenuous connection with them. But before any progress can be made, the Rhea is under attack from the Einstein -- a Starfleet vessel now controlled by the Borg. The landing party can only listen in horror as their comrades are assimilated. The Borg descend to the planet, and just as Chen accepts that she will be assimilated, the lieutenant is whisked two thousand light-years away. A quantum slipstream -- instantaneous transportation -- is controlled by these beings in the cluster, and in the heart of the cluster there is now a Borg ship. Cut off from the rest of the Borg collective, the Einstein cannot be allowed to rejoin it. For the sake of humanity, the Borg cannot gain access to quantum slipstream technology. Starfleet Command gives Captain Picard carte blanche: do whatever he must to help the beings in the cluster, and stop the Einstein no matter the cost.

Debt of Honor

The Unlikely Hero of Vladimir Putin

Guide To Natural Ventilation in High Rise Office Buildings

The Vertical City

When a new threat emerges from a force so alien and hostile that negotiation seems impossible, a group of unaligned worlds turned to Starfleet for protection. Original. 60,000 first printing.

With the release of 100 of the World's Tallest Buildings, the first 100 of the world's tallest buildings will be more than 985 feet (300 meters) for the first time. This book will showcase many of the new tall buildings across Asia and the Middle East, in particular. Compiled by the Council on Tall Buildings and Urban Habitat (CTBUH), the book begins with insightful introductory essays by renowned tall buildings expert, Georges Binder, on key trends in the skyscraper typology (a preview of the future) and on the history of the world's tallest buildings by decade. This ambitious and comprehensive text provides in-depth descriptions of the buildings' design and significance, accompanied by stunning images, detailed drawings, and plans. Towering structures are often the subject of admiration merely for their sheer height or skyline silhouette and criticized for their poor environmental performance (not without justification). This book aims to change that impression by showing innovations that are particular to this group of tall buildings, in addition to generally good architectural design and engineering prowess. The CTBUH's Awards series draws from the multi-disciplinary expertise of the practitioners directly involved in bringing these buildings to life. This guide is intended for anyone working on the design and operation of tall buildings at both the building and urban scales.

When Vladimir Putin, an unimportant, low-level KGB operative, was rushed to power by a group of Oligarchs in 1999, he was a man without a history. Within a few brief years, Putin had dismantled Russia's media, wrested control and wealth from the country's burgeoning business class, and decimated the fragile mechanisms of democracy. Virtually every obstacle to his unbridled control was removed and every opposing voice silenced, with political rivals and critics driven into exile or to the grave. Drawing on information and sources no other writer has tried, Masha Gessen's fearless account charts Putin's rise from the boy who had scraped his way through post-war Leningrad schoolyards, to the 'faceless' man who manoeuvred his way into absolute - and absolutely corrupt - power.

The saga of the Star Trek: Enterprise TV series continues with this thrilling original novel! The time has come to act. Following the destructive consequences of the Ware crisis, Admiral Jonathan Archer and Section 31 agent Trip Tucker both attempt to change their institutions to prevent further such tragedies. Archer pushes for a Starfleet directive of non-interference, but he faces opposition from allies within the fleet and unwelcome support from adversaries who wish to drive the Federation into complete isolationism. Meanwhile, Tucker plays a dangerous game against the corrupt leaders of Section 31, hoping to bring down their conspiracy once and for all. But is he willing to jeopardize Archer's efforts—and perhaps the fate of an entire world—in order to win?™, ®, & © 2016 CBS Studios, Inc. Star Trek and related marks are trademarks of CBS Studios, Inc. All Rights Reserved.

Star Trek: Titan #3: Orion's Hour

Rise of the Federation: Tower of Babel

Surak's Soul

London Lectures of 1907

Multi-purpose High-rise Towers and Tall Buildings

Admiral Jonathan Archer and Ta Pol investigate when the writings of the Vulcan philosopher Surak, which they uncovered, are seemingly proved to be a fraud, threatening the peaceful reform that followed their discovery.

An all-new Star Trek movie-era adventure! While attempting to settle in as commandant of Starfleet Academy, Admiral James T. Kirk must suddenly contend with the controversial, turbulent integration of an alien warrior caste into the student body—and quickly becomes embroiled in conflict when the Academy controversy escalates to murder. Meanwhile, Captain Spock of the USS Enterprise and Commander Pavel Chekov of the USS Reliant are investigating a series of powerful cosmic storms seemingly targeted toward their unstoppable outbursts emitting from the very fabric of space. Endeavoring to predict where the lethal storms will next erupt, Spock and Chekov make the shocking discovery that the answer lies in Commander Nyota Uhura's past—one that she no longer remembers.™, ®, & © 2021 CBS Studios, Inc. STAR TREK and related marks and logos are trademarks of CBS Studios, Inc. All Rights Reserved.

An original novel continuing the saga of the TV series Star Trek: Enterprise-*featuring Captain Jonathan Archer and the crew of the Enterprise!* Years ago, Jonathan Archer and T'Pol helped Unearth the true writings of Vulcan's great philosopher Surak, bringing forth a new era of peaceful reform on Vulcan. But when their discovery is seemingly proven to be a fraud, the scandal threatens to undo a decade of progress and return power to the old, warlike regime. Admiral Archer, Captain T'Pol, and the crew of the U.S.S. Endeavour investigate with help from their Vulcan allies, but none of them suspect the identity of the real mastermind behind the conspiracy to reconquer Vulcan—or the price they will have to pay to discover the truth. Meanwhile, when a long-forgotten technological threat re-emerges beyond the Federation's borders, Captain Malcolm Reed of the U.S.S. Pioneer attempts to track down its origins with help from his old friend "Trip" Tucker. But they discover that other civilizations are eager to exploit this dangerous power for their own benefit, even if the Federation must pay the price!™, ®, & © 2015 CBS Studios, Inc. STAR TREK and related marks and logos are trademarks of CBS Studios, Inc. All Rights Reserved.

It seems likely no more of the banks will get the business job in the Federation than temporal investigations get to live the human adventure of traveling to other times and realities. It's up to the dedicated agents of the Federation department of Temporal Investigations to deal with the consequences to the timestream that the rest of the Galaxy has to live with day by day. When history can be wiped out at any moment by time warriors from the future, misused relics of ancient races, or accident-prone starships, only the most disciplined, obsessive, and unimaginative government employees have what it takes to face the existential uncertainty of it all on a daily basis. . . . and still stay sane enough to complete their assignments. That's where Agents Lucely and Dulmur come in—stalwart and unflappable, these men are the Federation's unsung anchors in a chaotic universe. Together with their colleagues in the DTI—and with the help and sometimes hindrance of Starfleet's finest—they do what they can to keep the timestream, as neat and orderly as they are. But when a series of escalating temporal incursions threatens to open a new front of the history-spanning Temporal Cold War in the twenty-fourth century, Agents Lucely and Dulmur will need all their investigative skill and unbending determination to stop those who wish to rewrite the past for their own advantage, and to keep the present and the future from devolving into the kind of chaos they really, really hate.

Russia and East Asia

Management of Temporal Investigations: Watching the Clock

Informal and Gradual Integration

Star Trek: Enterprise: Rise of the Federation: Tower of Babel

Management of Legionella in Water Systems

Mestiko: a world on the brink of interstellar travel -- and one that is closely and discreetly monitored by the Federation. But when a rogue pulsar sweeps through the star system, threatening to destroy all life on their planet, Starfleet must mount a desperate effort to protect the planet from annihilation. Under the command of James T. Kirk, the Starship Enterprise™ is able to mitigate some of the damage -- but the world's surface is still devastated with appalling loss of life. Over the next three decades, the Enterprise and its crew revisit Mestiko -- whether to keep them from falling prey to the machinations of the Klingon Empire or to deliver a new method of replenishing the planet's ozone -- through trials and tribulations, hardship and strife, love and death. Originally published as six eBooks, *Mere Anarchy* is the saga of one crew's career-long relationship to that world, and the ties that bound them inextricably together.

Tall buildings are not the only solution for achieving sustainability through increased density in cities but, given the scale of current population shifts, the vertical city is increasingly being seen as the most viable solution for many urban centers. However, the full implications of concentrating more people on smaller plots of land by building vertically - whether for work, residential or leisure functions - needs to be better researched and understood. It is generally accepted that we need to reduce the energy equation -- in both operating and embodied terms - of every component and system in the building as an essential element in making it more sustainable. Mechanical HVAC systems (Heating, Ventilation and Air-Conditioning) in tall office buildings typically account for 30-40 percent of overall building energy consumption. The increased efficiency (or possibly even elimination) of these mechanical systems - through the provision of natural ventilation - could thus be argued to be the most important single step we could make in making tall buildings more sustainable. This guide sets out recommendations for every phase of the planning, construction and operation of natural ventilation systems in these buildings, including local climatic factors that need to be taken into account, how to plan for seasonal variations in weather, and the risks in adopting different implementation strategies. All of the recommendations are based on analysis of the research findings from richly-illustrated international case studies. Tried and tested solutions to real-life problems make this an essential guide for anyone working on the design and operation of tall buildings anywhere in the world. This is the first technical guide from the Council on Tall Buildings and Urban Habitat's Tall Buildings & Sustainability Working Group looking in depth at a key element in the creation of tall buildings with a much-reduced environmental impact, while taking the industry closer to an appreciation of what constitutes a sustainable tall building, and what factors affect the sustainability threshold for tall.

THE HISTORIC SAGA BEGINS Born in the twilight years of Vulcan's violent and passionate past, those who declared themselves Rihannsu chose to reign free in the unknown reaches of space rather than to serve under the new tyranny of logic. Having severed themselves from their homeworld, they survived the perilous voyage across the stars to reach shores on a distant planet, there to begin the civilization that would one day flower into the Romulan Star Empire. Now, after millennia of wars and conquests, this empire is decaying from within, surrendering its noble heritage to reckless ambition, abandoning honor for kidnapping and murder. The corruption is so great that the Rihannsu's finest military officer -- Commander Ael'Rlliaillieu of the warbird *Bleeding* -- believes she can save her people only by joining forces with her greatest enemy: Captain James T. Kirk of the Starship Enterprise™. Meanwhile, on the Romulan homeworld, a Federation deep-cover agent has been posing as a household servant named Arrhæe i-Khellian -- but her operation takes a strange turn when a captured Starfleet officer is brought to her home. . . . The lives of Ael, Arrhæe, and the crew of the Enterprise come together in these astonishing adventures -- originally published in four volumes: *My Enemy, My Ally*; *The Romulan Way*; *Swordhunt*; and *Honor Blade* -- that will challenge everything you thought you knew about the Romulans.

Legionnaires' disease, a pneumonia caused by the Legionella bacterium, is the leading cause of reported waterborne disease outbreaks in the United States. Legionella occur naturally in water from many different environmental sources, but grow rapidly in the warm, stagnant conditions that can be found in engineered water systems such as cooling towers, building plumbing, and hot tubs. Humans are primarily exposed to Legionella through inhalation of contaminated aerosols into the respiratory system. Legionnaires' disease can be fatal, with between 3 and 33 percent of Legionella infections leading to death, and studies show the incidence of Legionnaires' disease in the United States increased five-fold from 2000 to 2017. Management of Legionella in Water Systems reviews the state of science on Legionella contamination of water systems, specifically the ecology and diagnosis. This report explores the process of transmission via water systems, quantification, prevention and control, and policy and training issues that affect the incidence of Legionnaires' disease. It also analyzes existing knowledge gaps and recommends research priorities moving forward.

Rosetta

Green Walls in High-Rise Buildings

Living Memory

A Sustainable Development Model

Star Trek: Enterprise: The Romulan War: Beneath the Raptor's Wing

"Based upon Star Trek created by Gene Roddenberry and Star Trek: Enterprise created by Rick Berman & Brannon Braga."

Since the 1960s, wind tunnel testing has become a commonly used tool in the design of tall buildings. It was pioneered, in large part, during the design of the World Trade Center Towers in New York. Since those early days of wind engineering, wind tunnel testing techniques have developed in sophistication, but these techniques are not widely understood by the designers using the results. As a direct result, the CTBUH Wind Engineering Working Group was formed to develop a concise guide for the non-specialist. The primary goal of this guide is to provide an overview of the wind tunnel testing process for design professionals. This knowledge allows readers to ask the correct questions of their wind engineering consultants throughout the design process. This is not an in-depth guide to the technical intricacies of wind tunnel testing, it focusses instead on the information the design community needs, including: a unique methodology for the presentation of wind tunnel results to allow straightforward comparison of results from different wind tunnel laboratories, advice on when a tall building is likely to be sufficiently sensitive to wind effects to benefit from a wind tunnel test background for assessing whether design codes and standards are applicable details of the types of tests that are commonly conducted descriptions of the fundamentals of wind climate and the interaction of wind and tall buildings This unique book is an essential guide for all designers of tall buildings, and anyone else interested in the process of wind tunnel testing for tall buildings.

Interest continues to develop in the design and construction of high-rise towers and tall buildings, structures with heights ranging from 75m to 500m and even more. This volume presents the papers from the third in a series of international conferences on the subject, organised by the International Federation of High-rise Structures. The papers have been drawn together under the grand theme of the Conquest of Vertical Space in the 21st Century. The conference has been organised by the UK's Concrete Society, and sponsored by the IFHS and the Council on Tall Buildings and Urban Habitat and the Fdration Internationale de la Prcontraite (FIP). This prestigious collaboration has brought forth a body of high quality practical and research papers.

As the U.S.S. Titan ventures beyond the outermost reaches of known space, the telepaths in her crew -- including Diplomatic Officer Deanna Troi -- are overwhelmed by an alien cry of distress, leading the ship to the scene of a shocking act of carnage: a civilization of interstellar "whalers" preying upon and exploiting a familiar species of sentient spaceborne giants. Appalled but reluctant to rush to judgment, Captain William Riker and his crew investigate, discovering a cosmic spawning ground in a region of active star formation -- the ecosystem for a bewildering array of diverse but similarly vast life-forms. While attempting to negotiate an end to the victimization of these creatures, Riker's crew inadvertently grants them the means to defeat their hunters' purpose...only to learn that things are not exactly as they seem.

An output of the CTBUH Sustainability Working Group

Wind Tunnel Testing of High-Rise Buildings

Foundation Systems for High-Rise Structures

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Star Trek: Titan #5: Over a Torrent Sea

An original novel set in the universe of Star Trek: Enterprise! The United Federation of Planets has weathered its first major crisis, but its growing pains are just beginning. Admiral Jonathan Archer hopes to bring the diverse inhabitants of the powerful and prosperous Rigel system into the Federation, jump-starting the young nation's growth and stabilizing a key sector of space. Archer and the Federation's top diplomats journey to the planetoid Babel to debate Rigel's admission . . . but a looming presidential race heats up the ideological divide within the young nation, jeopardizing the talks and threatening to undo the fragile unity Archer has worked so hard to preserve. Meanwhile, the sinister Orion Syndicate recruits new allies of its own, seeking to beat the Federation at its own game. Determined to keep Rigel out of the union, they help a hostile Rigelian faction capture sensitive state secrets along with Starfleet hostages, including a young officer with a vital destiny, Captain Malcolm Reed, Captain T'Pol, and their courageous crews must now brave the wonders and dangers of Rigel's many worlds to track down the captives before the system is plunged into all-out war. The Council on Tall Buildings and Urban Habitat has produced four Technical Guides to date, since the series launched in late 2012. Each of these guides is the product of a CTBUH Working Group/committees formed specifically to address focused topical subjects in the industry. The intention of each guide is the same-to provide working knowledge to the typical building owner or professional who wants a better understanding of available options for improving tall buildings, and what affects their design. The object of the series is to provide a tool-kit for the creation of better-performing tall buildings, and to spread the understanding of the considerations that need to be taken in designing tall. This technical guide offers an extensive overview of the use of vertical vegetation in high-rise buildings, an in-depth analysis of green walls, definitions and typology, including standards, policies and incentives. It features comprehensive case studies, along with architectural theories of the public and private benefits of green walls. The book delves into architect-design considerations and limitations, the effects of green walls on energy efficiencies and includes recommendations and future research.