Skema Rangkaian Booster Pengapian Ac Motor Csnews De

One issue, however, is that although the book will display correctly when reading, the title will appear only as place-holder characters in the book menu, because the reader lacks a Japanese font.

In this riveting account of an area of Appalachia known as the Quiet Zone where cell phones and WiFi are banned, journalist Stephen Kurczy explores the pervasive role of technology in our lives and the innate human need for quiet. “Captures the complex beauty of a disconnected way of life.” —The Nation With a new afterword to the paperback edition Deep in the Appalachian Mountains lies the last truly quiet town in America. Green Bank, West Virginia, is a place at once futuristic and old-fashioned: It’s home to the Green Bank Observatory, where astronomers search the depths of the universe using the latest technology, while schoolchildren go without WiFi or iPads. With a ban on all devices emanating radio frequencies that might interfere with the observatory’s telescopes, Quiet Zone residents live a life free from constant digital connectivity. But a community that on the surface seems idyllic is a place of contradictions, where the provincial meets the seemingly supernatural and quiet can serve as a cover for something darker. Stephen Kurczy embedded in Green Bank, making the residents of this small Appalachian village his neighbors. He shopped at the town’s general store, attended church services, went target shooting with a seven-year-old, square-danced with the locals, sampled the local moonshine. In The Quiet Zone, he introduces us to an unforgettable cast of characters. There is a tech buster patrolling the area for illegal radio waves; “electrosensitives” who claim that WiFi is deadly; a sheriff’s department with a string of unsolved murder cases dating back decades; a camp of neo-Nazis plotting their resurgence from a nearby mountain hollow. Amongst them all are the ordinary citizens seeking a simpler way of living. Kurczy asks: Is a less connected life desirable? Is it even possible? The Quiet Zone is a remarkable work of investigative journalism—at once a stirring ode to place, a tautly wound tale of mystery, and a clarion call to reexamine the role technology plays in our lives.

"A New York Times Magazine writer explores the Next Big Thing in tech--the impending revolution in voice recognition--and shows how it will upend Silicon Valley and transform how we use computers, the Web, and much more.Every decade or so brings a seismic shift in how people interact with tech, from the PC to the internet to the smartphone. James Vlahos shows that we are on the cusp of the next shift: to voice computing. Siri and Alexa are early forms of this technology, but the day is coming when we'll talk as fluently with our phones, appliances, cars, etc. as we do with any human. Vlahos explains the enormous AI challenges that voice computing presents, and unpacks its vast economic, cultural, and psychological impact. He reveals how Google, Facebook, Microsoft, and other titans are competing fiercely to create the new voice-driven interfaces. Amazon has devoted an entire secret building to their efforts, and other companies are making similarly huge plays. Vlahos doesn't shy away from the troubling questions that voice computing raises. Will people become emotionally dependent on lifelike computers? Will we confide in them in ways that further erode our privacy? Will they deepen our addiction to all things digital? We are on the verge of a transformation as big as the iPhone. Talk to Me will help us get ready."--

Diesel

Energy Efficiency Manual

Fundamentals, Service, Repair

Solar Cells and Modules

Methane Digesters for Fuel Gas and Fertilizer

The Wires of War

The Palaeolithic Origins of Human Burial

This is a collection of photographs compiled by the author during his years of working as a surgeon and lecturer at Katurba Medical College. They show the extreme conditions of disease with which the patient presents before surgery. Each photo is described, the cause of the disease is explained, and the surgical treatment is suggested. There are 250 photos in full colour spread across 14 chapters, dealing with head and neck diseases, through all body systems, as well as more specialised unique conditions. This book will be useful to all surgical trainees and practising surgeons.

This revised edition presents an engineering design approach to ventilation and air conditioning as part of the comprehensive environmental control of the mine atmosphere. It provides an in-depth look, for practitioners who design and operate mines, into the health and safety aspects of environmental conditions in the underground workplace.

Information is a key resource for all enterprises. From the time information is created to the moment it is destroyed, technology plays a significant role in containing, distributing and analysing information. Technology is increasingly advanced and has become pervasive in enterprises and the social, public and business environments.

With Complete Instructions for Two Working Models

Autonomy

COBIT 5 for Risk

Talk to Me

Algebra 2

Radio-frequency Amplifiers

Where Big Tech Went Wrong and How We Can Reboot

"System Error is a triumph: an analysis of the critical challenges facing our digital society that is as accessible as it is sophisticated." — Anne-Marie Slaughter, CEO of New America A forward-thinking manifesto from three Stanford professors—experts who have worked at ground zero of the tech revolution for decades—which reveals how big tech’s obsession with optimization and efficiency has sacrificed fundamental human values and outlines steps we can take to change course, renew our democracy, and save ourselves. In no more than the blink of an eye, a naïve optimism about technology’s liberating potential has given way to a dystopian obsession with biased algorithms, surveillance capitalism, and job-displacing robots. Yet too few of us see any alternative to accepting the onward march of technology. We have simply accepted a technological future designed for us by technologists, the venture capitalists who fund them, and the politicians who give them free rein. It doesn’t need to be this way. System Error exposes the root of our current predicament: how big tech’s relentless focus on optimization is driving a future that reinforces discrimination, erodes privacy, displaces workers, and pollutes the information we get. This optimization mindset substitutes what companies care about for the values that we as a democratic society might choose to prioritize. Well-intentioned optimizers fail to measure all that is meaningful and, when their creative disruptions achieve great scale, they impose their values upon the rest of us. Armed with an understanding of how technologists think and exercise their power, three Stanford professors—a philosopher working at the intersection of tech and ethics, a political scientist who served under Obama, and the director of the undergraduate Computer Science program at Stanford (also an early Google engineer)—reveal how we can hold that power to account. Troubled by the values that permeate the university’s student body and its culture, they worked together to chart a new path forward, creating a popular course to transform how tomorrow’s technologists approach their profession. Now, as the dominance of big tech becomes an explosive societal conundrum, they share their provocative insights and concrete solutions to help everyone understand what is happening, what is at stake, and what we can do to control technology instead of letting it control us.

An automotive and tech world insider investigates the quest to develop and perfect the driverless car—an innovation that promises to be the most disruptive change to our way of life since the smartphone We stand on the brink of a technological revolution. Soon, few of us will own our own automobiles and instead will get around in driverless electric vehicles that we summon with the touch of an app. We will be liberated from driving, prevent over 90% of car crashes, provide freedom of mobility to the elderly and disabled, and decrease our dependence on fossil fuels. Autonomy is the story of the maverick engineers and computer nerds who are creating the revolution. Longtime advisor to the Google Self-Driving Car team and former GM research and development chief Lawrence D. Burns provides the perfectly-timed history of how we arrived at this point, in a character-driven and heavily reported account of the unlikely thinkers who accomplished what billion-dollar automakers never dared. Beginning with the way 9/11 spurred the U.S. government to set a million-dollar prize for a series of off-road robot races in the Mojave Desert up to the early 2016 stampede to develop driverless technology, Autonomy is a page-turner that represents a chronicle of the past, diagnosis of the present, and prediction of the future—the ultimate guide to understanding the driverless car and navigating the revolution it sparks.

Energy Efficiency Manual, by Donald Wulfinghoff, is the new comprehensive reference & how-to-book for energy conservation in commercial buildings, residential buildings & industrial plants. It combines the features of encyclopedia, textbook & practical field manual. This handbook details 400 actions for conserving energy in design, construction, retrofit, operation & maintenance. They cover heating & cooling efficiency, water conservation, insulation, air leakage, lighting, daylighting, solar heating & industrial equipment. The second part explains renewable energy sources, passive solar, wind energy, geothermal heat pumps, energy conservation codes, environmentally safe refrigerants, energy management computers & building automation systems, electricity rates, high efficiency motors, boilers, air conditioning equipment, fans, pumps, insulation, high efficiency lamps, thermostats, time controls & many other topics. Written as an easy conversation with readers of all backgrounds, it is packed with ratings, tips, illustrations & examples that make it easy to find the right conservation measures for every application. The clear non-mathematical presentation is for everyone from homeowners to architects, engineers, contractors, property managers, plant operators, business owners, financial managers, energy auditors, public utilities, students & faculty. Environmental protection, comfort, health & safety are major themes. Learn how to improve indoor air quality & avoid "sick building syndrome."

A World Without Work

Mini Atlas of Manual Small Incision Cataract Surgery

From Gutenberg to Google

Unraveling the Mystery of a Town Suspended in Silence

Boilers

SAM

Doodlers earn their MMD (Master Mo Doodler) diploma in 15 days or less (or more!) with this activity-packed doodle book. Draw impossible buildings, animate favorite characters, design sets, make puppets, give gifts, and create abstract art with Mo Willems! This 144-page activity book builds on the 15-episode web series LUNCH DOODLES with Mo Willems! originally produced by Mo Willems with the Kennedy Center in March of 2020. Featuring new hosts Kit and Kaboodle, the Doodle Poodles, kids get writing and drawing tips from Mo across 15 chapters of daily doodling fun. Bonus features include perforated gatefold SUPER BOUNCE gameboards, pop-out finger puppets, and how-to-draw instructions of popular Mo Willems characters.

How do you reply to your colleague’s weird email? What might Debrett’s say about your Tinder profile? And just how do you know if you’re mansplaining? In this irreverent journey through the murky world of digital etiquette, WIRED’s Victoria Turk provides an indispensable guide to minding our manners in a brave new online world. The digital revolution has put us all within a few clicks, taps and swipes of each other. But familiarity can breed contempt, and whilst we’re more likely than ever to fall in love online, we’re also more likely to fall headfirst into a blazing row with a stranger. Google’s unofficial motto is Don’t Be Evil, but sometimes that’s easier said than done. If you’ve ever encountered the surreal battlefields of digital life and wondered why we don't all just go analogue, this is the book for you.

Girl gangs reigning terror at Facebook, narcissistic overlords at Google . . . this is the backdrop of Lean Out, which takes readers on the journey of Marissa Orr, a single mom of three trying to find success in her fifteen-year career at the world’s top tech giants. Orr delivers an ambitious attempt to answer the critical question: What have we gotten wrong about women at work? “This book is a must-read for insights on the impact that reversing systemic gender biases can have on creating more diverse, healthier workplaces for both women and men.” --Joanne Harrell, Senior Director, USA Citizenship, Microsoft “This book will make you think differently about what it will take for women to succeed at the highest levels in American business.” --Rishad Tobaccowala, Chief Growth Officer, Publicis Groupe Lean Out offers a new and refreshingly candid perspective on what it’s really like for today’s corporate underdogs. Based on both in-depth research and personal experiences, Orr punctures a gaping hole in today’s feminist rhetoric and sews it back up with compelling new arguments for the reasons more women don’t make it to the top and how companies can better incentivize women by actually listening to what they have to say and by rewarding the traits that make them successful. In Lean Out, Orr uncovers: Why our pursuit to close the gender gap has come at the expense of female well-being. The need to redefine success and change the way corporations choose their leaders. The way most career advice books targeting professional women seek to change their behavior rather than the system. Why modern feminism has failed to make any progress on its goals for equality. More than fifty years since the passage of the Equal Pay Act, the wage gap still hovers at 80 percent, and only 5 percent of CEOs in the Fortune 500 are women. Today, rising up the ranks in many companies still often means cutthroat, win-at-all-costs tactics, where being the loudest voice in the room is more important than being the person with the best ideas for moving the company forward. Not surprisingly, most women don’t want to play this game. An everyday working woman with a sardonic sense of humor, Orr is an endearing antihero who captures the voice for a new generation of women at work. Lean Out presents a revolutionary path forward, to change the life trajectories of women in the corporate world and beyond.

The Truth About Women, Power, and the Workplace

Integration - Applications - Connections, Teacher's Wraparound Edition

Practical Marine Electrical Knowledge

The Quest to Build the Driverless Car—And How It Will Reshape Our World

For Everyone who Uses Energy, Pays for Utilities, Controls Energy Usage, Designs and Builds, is Interested in Energy and Environmental Preservation

A Practical Reference

Digital Etiquette

This book gives a comprehensive introduction to the field of photovoltaic (PV) solar cells and modules. In thirteen chapters, it addresses a wide range of topics including the spectrum of light received by PV devices, the basic functioning of a solar cell, and the physical factors limiting the efficiency of solar cells. It places particular emphasis on crystalline silicon solar cells and modules, which constitute today more than 90 % of all modules sold worldwide. Describing in great detail both the manufacturing process and resulting module performance, the book also touches on the newest developments in this sector, such as Tunnel Oxide Passivated Contact (TOPCON) and heterojunction modules, while dedicating a major chapter to general questions of module design and fabrication. Overall, it presents the essential theoretical and practical concepts of PV solar cells and modules in an easy-to-understand manner and discusses current challenges facing the global research and development community.

Following the publication of the author’s first book, Boilers for Power and Process by CRC Press in 2009, several requests were made for a reference with even quicker access to information. Boilers: A Practical Reference is the result of those requests, providing a user-friendly encyclopedic format with more than 500 entries and nearly the same number of supporting illustrations. Written for practicing engineers and dealing with practical issues rather than theory, this reference focuses exclusively on water tube boilers found in process industries and power plants. It provides broad explanations for the following topics: A range of boilers and main auxiliaries, as well as steam and gas turbines Traditional firing techniques—grates, oil/gas, and modern systems Industrial, utility, waste heat, MSW and bio-fuel-fired boilers, including supercritical boilers The scientific fundamentals of combustion, heat transfer, fluid flow, and more The basics of fuels, water, ash, high-temperature steels, structurals, refractory, insulation, and more Additional engineering topics like boiler instruments, controls, welding, corrosion, and wear Air pollution, its abatement techniques and their effect on the design of boilers and auxiliaries Emerging technologies such as carbon capture, oxy-fuel combustion, and PFBC This reference covers almost every topic needed by boiler engineers in process and power plants. An encyclopedia by design and a professional reference book by focus and size, this volume is strong on fundamentals and design aspects as well as practical content. The scope and easy-to-navigate presentation of the material plus the numerous illustrations make this a unique reference for busy design, project, operation, and consulting engineers.

Humans are unique in that they expend considerable effort and ingenuity in disposing of the dead. Some of the recognisable ways we do this are visible in the Palaeolithic archaeology of the Ice Age. The Palaeolithic Origins of Human Burial takes a novel approach to the long-term development of human mortuary activity – the various ways we deal with the dead and with dead bodies. It is the first comprehensive survey of Palaeolithic mortuary activity in the English language. Observations in the modern world as to how chimpanzees behave towards their dead allow us to identify ‘core’ areas of behaviour towards the dead that probably have very deep evolutionary antiquity. From that point, the palaeontological and archaeological records of the Pliocene and Pleistocene are surveyed. The core chapters of the book survey the mortuary activities of early hominins, archaic members of the genus Homo, early Homo sapiens, the Neanderthals, the Early and Mid Upper Palaeolithic, and the Late Upper Palaeolithic world. Burial is a striking component of Palaeolithic mortuary activity, although existing examples are odd and this probably does not reflect what modern societies believe burial to be, and modern ways of thinking of the dead probably arose only at the very end of the Pleistocene. When did symbolic aspects of mortuary ritual evolve? When did the dead themselves become symbols? In discussing such questions, The Palaeolithic Origins of Human Burial offers an engaging contribution to the debate on modern human origins. It is illustrated throughout, includes up-to-date examples from the Lower to Late Upper Palaeolithic, including information hitherto unpublished.

Theory of Adoption

Power Station Engineering and Economy

A Guide to Successful Applications

How Voice Computing Will Transform the Way We Live, Work, and Think

The History of Our Future

Variable Speed Pumping

Technology and the Global Struggle for Power

SHORTLISTED FOR THE FINANCIAL TIMES & MCKINSEY 2020 BUSINESS BOOK OF THE YEAR One of Fortune Best Books of the Year One of Inc. Best Business Books of the Year One of The Times (UK) Best Business Books of the Year A New York Times Book Review Editors’ Choice From an Oxford economist, a visionary account of how technology will transform the world of work, and what we should do about it From mechanical looms to the combustion engine to the first computers, new technologies have always provoked panic about workers being replaced by machines. For centuries, such fears have been misplaced, and many economists maintain that they remain so today. But as Daniel Susskind demonstrates, this time really is different. Breakthroughs in artificial intelligence mean that all kinds of jobs are increasingly at risk. Drawing on almost a decade of research in the field, Susskind argues that machines no longer need to think like us in order to outperform us, as was once widely believed. As a result, more and more tasks that used to be far beyond the capability of computers – from diagnosing illnesses to drafting legal contracts, from writing news reports to composing music – are coming within their reach. The threat of technological unemployment is now real. This is not necessarily a bad thing, Susskind emphasizes. Technological progress could bring about unprecedented prosperity, solving one of humanity’s oldest problems: how to make sure that everyone has enough to live on. The challenges will be to distribute this prosperity fairly, to constrain the burgeoning power of Big Tech, and to provide meaning in a world where work is no longer the center of our lives. Perceptive, pragmatic, and ultimately hopeful, A World Without Work shows the way.

From the former news policy lead at Google, an urgent and groundbreaking account of the high-stakes global cyberwar brewing between Western democracies and the autocracies of China and Russia that could potentially crush democracy. From 2016 to 2020, Jacob Helberg led Google’s global internal product policy efforts to combat disinformation and foreign interference. During this time, he found himself in the midst of what can only be described as a quickly escalating two-front technology cold war between democracy and autocracy. On the front-end, we’re fighting to control the software—applications, news information, social media platforms, and more—of what we see on the screens of our computers, tablets, and phones, a clash which started out primarily with Russia but now increasingly includes China and Iran. Even more ominously, we’re also engaged in a hidden back-end battle—largely with China—to control the Internet’s hardware, which includes devices like cellular phones, satellites, fiber-optic cables, and 5G networks. This tech-fueled war will shape the world’s balance of power for the coming century as autocracies exploit twenty-first-century methods to re-divide the world into twentieth century-style spheres of influence. Helberg cautions that the spoils of this fight are power over every meaningful aspect of our lives, including our economy, our infrastructure, our national security, and ultimately, our national sovereignty. Without a firm partnership with the government, Silicon Valley is unable to protect democracy from the autocrats looking to sabotage it from Beijing to Moscow and Tehran. The stakes of the ongoing cyberwar are no less than our nation’s capacity to chart its own future, the freedom of our democratic allies, and even the ability of each of us to control our own fates, Helberg says. And time is quickly running out.

This book offers a selection of the best papers presented at the international scientific conference "Digital Transformation in Industry: Trends, Management, Strategies", held by the Institute of Economics of the Ural Branch of the Russian Academy of Sciences, Russia in November 2020. The main focus of the book is to evaluate trends and perspectives of digital transformation in industry and industrial markets through the dissemination of Industry 4.0. The aim of the topics discussed is to create an idea of introduction mechanisms for digitization processes and to specify successful strategies of digital transformation in all sectors of industrial enterprises. The experience of developed and developing economies, as well as small and large enterprises implementing IT and other technological innovations are included. Students as well as managers of industrial organizations alike can benefit from the results of the topics covered.

ASM Handbook

The Original Dream

Everything you wanted to know about modern manners but were afraid to ask

Lean Out

Doodling 101: A Silly Symposium

Blockchain: The Next Everything

Test Gods

"A colorful page-turner." —Walter Isaacson, New York Times Book Review "As important a book on space as has ever been written." —Homer Hickam, Author of Rocket Boys The dramatic inside story of the historic flights that launched SpaceX—and Elon Musk—from a shaky startup into the world's leading-edge rocket company SpaceX has enjoyed a miraculous decade. Less than 20 years after its founding, it boasts the largest constellation of commercial satellites in orbit, has pioneered reusable rockets, and in 2020 became the first private company to launch human beings into orbit. Half a century after the space race it is private companies, led by SpaceX, standing alongside NASA pushing forward into the cosmos, and laying the foundation for our exploration of other worlds. But before it became one of the most powerful players in the aerospace industry, SpaceX was a fledgling startup, scrambling to develop a single workable rocket before the money ran dry. The engineering challenge was immense; numerous other private companies had failed similar attempts. And even if SpaceX succeeded, they would then have to compete for government contracts with titans such as Lockheed Martin and Boeing, who had tens of thousands of employees and tens of billions of dollars in annual revenue. SpaceX had fewer than 200 employees and the relative pittance of $100 million in the bank. In Liftoff, Eric Berger, senior space editor at Ars Technica, takes readers inside the wild early days that made SpaceX. Focusing on the company’s first four launches of the Falcon 1 rocket, he charts the bumpy journey from scrappy underdog to aerospace pioneer. We travel from company headquarters in El Segundo, to the isolated Texas ranchland where they performed engine tests, to Kwajalein, the tiny atoll in the Pacific where SpaceX launched the Falcon 1. Berger has reported on SpaceX for more than a decade, enjoying unparalleled journalistic access to the company’s inner workings. Liftoff is the culmination of these efforts, drawing upon exclusive interviews with dozens of former and current engineers, designers, mechanics, and executives, including Elon Musk. The enigmatic Musk, who founded the company with the dream of one day settling Mars, is the fuel that propels the book, with his daring vision for the future of space. Filled with never-before-told stories of SpaceX’s turbulent beginning, Liftoff is a saga of cosmic proportions.

An experienced tech writer fully explains blockchain technology and how it will radically transform the world as we know it in this accessible, reader-friendly, illuminating guide. What is blockchain? Why does everyone from tech experts to business moguls to philanthropists believe it is a paradigm-shifting technology, bound to revolutionize society as significantly as the internet? Indeed, why is blockchain touted as The Next Everything? In this deft, fascinating, and easy-to-digest introduction to one of the most important innovations of recent times, Stephen P. Williams answers these questions, revealing how cryptocurrencies like bitcoin are just one example among dozens of transformative applications that this relatively new technology makes possible. He interprets the complexity into digestible anecdotes, metaphors, and straightforward descriptions for readers who don’t know tech, and explains all of blockchain’s most important aspects: why this so-called digital ledger is unhackable and unchangeable; how its distributed nature may transfer power from central entities like banks, government, and corporations to ordinary citizens around the world; and what its widespread use will mean for society as a whole. Taking us on a dazzlingly vivid tour through the systems predicted to soon underpin economics, politics, global trade, science, art, and numerous other aspects of our everyday lives, Blockchain: The Next Everything is a truly extraordinary journey into our future.

A New York Times Book Review Editors' Choice In the spirit of The Right Stuff, updated for the 21st century, Test Gods is an epic story about extreme bravery and sacrifice, about the thin line between lunacy and genius. Most of all, it is a story about the pursuit of meaning in our lives—and the fulfillment of our dreams. Working from exclusive inside reporting, New Yorker writer Nicholas Schmidle tells the remarkable story of the test pilots, engineers, and visionaries behind Virgin Galactic’s campaign to build a space tourism company. Schmidle follows a handful of characters—Mark Stucky, Virgin’s lead test pilot; Richard Branson, the eccentric billionaire funding the venture; Mike Moses, the grounded, unflappable president; Mike Alsbury, the test pilot killed in a fatal crash; and others—through personal and professional dramas, in pursuit of their collective goal: to make space tourism a reality. Along the way, Schmidle weaves his relationship with his father—a former fighter pilot and decorated war hero—into the tragedies and triumphs that Branson’s team confronts out in the Mojave desert as they design, build, and test-fly their private rocket ship. Gripping and novelistic, Test Gods leads us, through human drama, into a previously unseen world—and beyond.

Mine Ventilation and Air Conditioning

How the Hidden Rules of Design Are Changing the Way We Live, Work, and Play

The Quiet Zone

Casting. Volume 15

Marketing Safety Code

Liftoff

Gaseous Flow

AMAZON BEST BOOKS OF 2019 PICK FORTUNE WRITERS AND EDITORS' RECOMMENDED BOOKS OF 2019 PICK "User Friendly is a tour de force, an engrossing fusion of scholarly research, professional experience and revelations from intrepid firsthand reporting." —EDWARD TENNER, The New York Times Book Review In User Friendly, Cliff Kuang and Robert Fabricant reveal the untold story of a paradigm that quietly rules our modern lives: the assumption that machines should anticipate what we need. Spanning over a century of sweeping changes, from women’s rights to the Great Depression to World War II to the rise of the digital era, this book unpacks the ways in which the world has been—and continues to be—remade according to the principles of the once-obscure discipline of user-experience design. In this essential text, Kuang and Fabricant map the hidden rules of the designed world and shed light on how those rules have caused our world to change—an underappreciated but essential history that’s pieced together for the first time. Combining the expertise and insight of a leading journalist and a pioneering designer, User Friendly provides a definitive, thoughtful, and practical perspective on a topic that has rapidly gone from arcane to urgent to inescapable. In User Friendly, Kuang and Fabricant tell the whole story for the first time—and you’ll never interact with technology the same way again.

Mine Ventilation and Air ConditioningJohn Wiley & Sons

Prepared by industry experts from the pump, motor and drive industries under the auspices of Europump and the Hydraulic Institute, this reference book provides a comprehensive guide to variable speed pumping.It includes technical descriptions of pumping systems and their components, and guides the reader through the evaluation of different speed control options.Case studies help illustrate the life cycle cost savings and process improvements that appropriate variable speed pumping can deliver. · Authoritative, global reference to Variable Speed Pumping, by Europump and the Hydraulic Institute· Combines the technical knowledge of pump, motor and control systems in one guide· Brings together all the concepts, metrics and step-by-step decision-making support you need to help you decide which VSD strategies are most appropriate· Will help you design and specify pumping applications that minimise life-cycle costs

Meteorological Balloons

System Error

Elon Musk and the Desperate Early Days That Launched SpaceX

Yabu No Naka

User Friendly

Trends, Management, Strategies

Technology, Automation, and How We Should Respond

For Maya, history is like a dream, and her dreams are like a history of her life and how it relates to others. Effortlessly defying and calling into question time and space, Maya inhabits fantastical realities filled with shamans, romantic longing, a daughter s struggles, and a flying dragon. Lyrically flowing between Maya s multiple realities, The Original Dream is the story of a young independent Indonesian woman trying to break free from cultural and social conventions while also searching for her place among family and friends. With guidance from her parents, coworkers, and sister, along with a newborn filled with the wisdom of elders, Maya navigates her perceptions, looking for answers to unknown questions. Whether soaring through the nighttime sky, caring for her nephew, or tending to guests at the hotel where she works, she tries to delineate the difference between dreams and reality and if such a difference even matters. "

Network revolutions of the past have shaped the present and set the stage for the revolution we are experiencing today In an era of seemingly instant change, it's easy to think that today's revolutions—in communications, business, and many areas of daily life—are unprecedented. Today's changes may be new and may be happening faster than ever before. But our ancestors at times were just as bewildered by rapid upheavals in what we now call “networks”—the physical links that bind any society together. In this fascinating book, former FCC chairman Tom Wheeler brings to life the two great network revolutions of the past and uses them to help put in perspective the confusion, uncertainty, and even excitement most people face today. The first big network revolution was the invention of movable-type printing in the fifteenth century. This book, its millions of predecessors, and even such broad trends as the Reformation, the Renaissance, and the multiple scientific revolutions of the past 500 years would not have been possible without that one invention. The second revolution came with the invention of the telegraph early in the nineteenth century. Never before had people been able to communicate over long distances faster than a horse could travel. Along with the development of the world's first high-speed network—the railroad—the telegraph upended centuries of stability and literally redrew the map of the world. Wheeler puts these past revolutions into the perspective of today, when rapid-fire changes in networking are upending the nature of work, personal privacy, education, the media, and nearly every other aspect of modern life. But he doesn't leave it there. Outlining “What's Next,” he describes how artificial intelligence, virtual reality, blockchain, and the need for cybersecurity are laying the foundation for a third network revolution.

A true story of innovation that “reads like a movie” (Seth Godin), centered on a scrappy team of engineers—far from the Silicon Valley limelight—and their quest to revolutionize the traditional trade of masonry by building a robot that can lay bricks. Humans have landed men on the moon, programmed cars to drive themselves, and put the knowledge of our entire civilization in your back pocket. But no one—from MIT nerds to Army Corps engineers—has ever built a robot that can lay bricks as well as a mason. Unlike the controlled conditions of a factory line, where robots are now ubiquitous, no two construction sites are alike, and a day’s work involves countless variables—bricks that range in size and quality, temperamental mortar mixes, uneven terrain, fickle weather, and moody foremen. Twenty-five years ago, on a challenging construction job in Syracuse, architect Nate Podkaminer had a vision of a future full of efficient, automated machines that freed bricklayers from the repetitive, toilsome burden of lifting, in bricks, the equivalent of a Ford truck every few days. Offhandedly, he mentioned the idea to his daughter’s boyfriend, and after some inspired scheming, the architect and engineer—soon to be in-laws—cofounded a humble start-up called Construction Robotics. Working out of a small trailer, they recruited a boldly unconventional team of engineers to build the Semi-Automated Mason: SAM. In classic American tradition, a small, unlikely, and eccentric family-run start-up sought to reimagine the behemoth $1 trillion construction industry—the second biggest industry in America—in bootstrap fashion. In the tradition of Tracy Kidder’s The Soul of a New Machine, SAM unfolds as an engineering drama, full of trials and setbacks, heated showdowns between meticulous scientists and brash bricklayers (and their even more opinionated union), and hard-earned milestone achievements. Jonathan Waldman, acclaimed author of Rust, masterfully “reveals a world that surrounds us but mostly eludes our notice” (The Boston Globe).

Virgin Galactic and the Making of a Modern Astronaut

Modesty

One Robot, a Dozen Engineers, and the Race to Revolutionize the Way We Build

Digital Transformation in Industry

Gas Turbine Engineering Handbook

Prepare to enter a world where a nation so great is finally tested as if jackals and lions collide. Will Valkar be a jackal or a lion?

The Gas Turbine Engineering Handbook has been the standard for engineers involved in the design, selection, and operation of gas turbines. This revision includes new case histories, the latest techniques, and new designs to comply with recently passed legislation. By keeping the book up to date with new, emerging topics, Boyce ensures that this book will remain the standard and most widely used book in this field. The new Third Edition of the Gas Turbine Engineering Hand Book updates the book to cover the new generation of Advanced gas Turbines. It examines the benefit and some of the major problems that have been encountered by these new turbines. The book keeps abreast of the environmental changes and the industries answer to these new regulations. A new chapter on case histories has been added to enable the engineer in the field to keep abreast of problems that are being encountered and the solutions that have resulted in solving them. Comprehensive treatment of Gas Turbines from Design to Operation and Maintenance. In depth treatment of Compressors with emphasis on surge, rotating stall, and choke; Combustors with emphasis on Dry Low NOx Combustors; and Turbines with emphasis on Metallurgy and new cooling schemes. An excellent introductory book for the student and field engineers A special maintenance section dealing with the advanced gas turbines, and special diagnostic charts have been provided that will enable the reader to troubleshoot problems he encounters in the field The third edition consists of many Case Histories of Gas Turbine problems. This should enable the field engineer to avoid some of these same generic problems