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KEY=YEARS - JAXSON BANKS

THE MEDICAL BULLETIN

A MONTHLY JOURNAL OF MEDICINE AND SURGERY

THE NEXT 100 YEARS

A FORECAST FOR THE 21ST CENTURY

Anchor China fragments, a new Cold War with Russia, Mexcio challenges U.S., the new great powers Turkey, Poland and Japan. **The Next 100 Years** is a fascinating, eye-opening and often shocking look at what lies ahead for the U.S. and the world from one of our most incisive futurists. In his provocative book, George Friedman turns his eye on the future—offering a lucid, highly readable forecast of the changes we can expect around the world during the twenty-first century. He explains where and why future wars will erupt (and how they will be fought), which nations will gain and lose economic and political power, and how new technologies and cultural trends will alter the way we live in the new century. **The Next 100 Years** draws on a fascinating exploration of history and geopolitical patterns dating back hundreds of years. Friedman shows that we are now, for the first time in half a millennium, at the dawn of a new era—with changes in store, including:

- The U.S.-Jihadist war will conclude—replaced by a second full-blown cold war with Russia.
- China will undergo a major extended internal crisis, and Mexico will emerge as an important world power.
- A new global war will unfold toward the middle of the century between the United States and an unexpected coalition from Eastern Europe, Eurasia, and the Far East; but armies will be much smaller and wars will be less deadly.
- Technology will focus on space—both for major military uses and for a dramatic new energy resource that will have radical environmental implications.
- The United States will experience a Golden Age in the second half of the century.

Written with the keen insight and thoughtful analysis that has made George Friedman a renowned expert in geopolitics and forecasting, **The Next 100 Years** presents a fascinating picture of what lies ahead.

THE NEXT 100 YEARS

A FORECAST FOR THE 21ST CENTURY

Anchor “Conventional analysis suffers from a profound failure of imagination. It imagines passing clouds to be permanent and is blind to powerful, long-term shifts taking place in full view of the world.” —George Friedman In his long-awaited and provocative new book, George Friedman turns his eye on the future—offering a lucid, highly readable forecast of the changes we can expect around the world during the twenty-first century. He explains where and why future wars will erupt (and how they will be fought), which nations will gain and lose economic and political power, and how new technologies and cultural trends will alter the way we live in the new century. **The Next 100 Years** draws on a fascinating exploration of history and geopolitical patterns dating back hundreds of years. Friedman shows that we are now, for the first time in half a millennium, at the dawn of a new era—with changes in store, including:

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THE NEXT 500 YEARS

ENGINEERING LIFE TO REACH NEW WORLDS

MIT Press An argument that we have a moral duty to colonize other planets and solar systems, and a plan for doing so.

Inevitably, life on Earth will come to an end, whether by climate disaster, or by cataclysmic war, or when the sun runs out of fuel in a few billion years. To avoid extinction, will we have to find a new home planet, perhaps even a new solar system, to inhabit? In this provocative and fascinating book, Christopher Mason argues that we have a moral duty to do just that. Because we are the only species aware that life on Earth has an expiration date, we have a responsibility to act as the shepherd of lifeforms--not only for our species but for all species on which we depend and for those still to come (by accidental or designed evolution). Mason argues that the same capacity for ingenuity that has enabled us to build rockets and land on other planets can be applied to redesigning biology so that we can sustainably inhabit those planets. And he lays out a 500-year plan for undertaking the massively ambitious project of reengineering human genetics for life in other worlds.

**DEBATES AND PROCEEDINGS OF THE CONSTITUTIONAL CONVENTION OF THE STATE OF CALIFORNIA,
CONVENED AT THE CITY OF SACRAMENTO, SATURDAY, SEPTEMBER 28, 1878**

**DEBATES AND PROCEEDINGS OF THE CONSTITUTIONAL CONVENTION OF THE STATE OF CALIFORNIA,
CONVENED AT THE CITY OF SACRAMENTO, SATURDAY, SEPTEMBER 28, 1978**

ANNUAL REPORT OF THE BOARD OF EDUCATION, OF THE CITY OF SYRACUSE FOR THE YEAR ENDING ...

THE TOBACCO WORKER

ANNUAL REPORT

THE AGE OF EM

WORK, LOVE, AND LIFE WHEN ROBOTS RULE THE EARTH

Oxford University Press Robots may one day rule the world, but what is a robot-ruled Earth like? Many think the first truly smart robots will be brain emulations or ems. Scan a human brain, then run a model with the same connections on a fast computer, and you have a robot brain, but recognizably human. Train an em to do some job and copy it a million times: an army of workers is at your disposal. When they can be made cheaply, within perhaps a century, ems will displace humans in most jobs. In this new economic era, the world economy may double in size every few weeks. Some say we can't know the future, especially following such a disruptive new technology, but Professor Robin Hanson sets out to prove them wrong. Applying decades of expertise in physics, computer science, and economics, he uses standard theories to paint a detailed picture of a world dominated by ems. While human lives don't change greatly in the em era, em lives are as different from ours as our lives are from those of our farmer and forager ancestors. Ems make us question common assumptions of moral progress, because they reject many of the values we hold dear. Read about em mind speeds, body sizes, job training and career paths, energy use and cooling infrastructure, virtual reality, aging and retirement, death and immortality, security, wealth inequality, religion, teleportation, identity, cities, politics, law, war, status, friendship and love. This book shows you just how strange your descendants may be, though ems are no stranger than we would appear to our ancestors. To most ems, it seems good to be an em.

THE SOUTHERN EDUCATIONAL JOURNAL

THE NEXT ONE HUNDRED YEARS

SHAPING THE FATE OF OUR LIVING EARTH

Bantam The author examines the threat of the greenhouse effect on the planet, the hole in the ozone layer, and the decimation of forests, and details the steps necessary to reverse these disasters

PHYSICS OF THE FUTURE

HOW SCIENCE WILL SHAPE HUMAN DESTINY AND OUR DAILY LIVES BY THE YEAR 2100

Anchor Imagine, if you can, the world in the year 2100. In *Physics of the Future*, Michio Kaku—the *New York Times* bestselling author of *Physics of the Impossible*—gives us a stunning, provocative, and exhilarating vision of the coming century based on interviews with over three hundred of the world's top scientists who are already inventing the future in their labs. The result is the most authoritative and scientifically accurate description of the revolutionary developments taking place in medicine, computers, artificial intelligence, nanotechnology, energy production, and astronautics. In all likelihood, by 2100 we will control computers via tiny brain sensors and, like magicians, move objects around with the power of our minds. Artificial intelligence will be dispersed throughout the environment, and Internet-enabled contact lenses will allow us to access the world's information base or conjure up any image we desire in the blink of an eye. Meanwhile, cars will drive themselves using GPS, and if room-temperature superconductors are discovered, vehicles will effortlessly fly on a cushion of air, coasting on powerful magnetic fields and ushering in the age of magnetism. Using molecular medicine, scientists will be able to grow almost every organ of the body and cure genetic diseases. Millions of tiny DNA sensors and nanoparticles patrolling our blood cells will silently scan our bodies for the first sign of illness, while rapid advances in genetic research will enable us to slow down or maybe even reverse the aging process, allowing human life spans to increase dramatically. In space, radically new ships—needle-sized vessels using laser propulsion—could replace the expensive chemical rockets of today and perhaps visit nearby stars.

Advances in nanotechnology may lead to the fabled space elevator, which would propel humans hundreds of miles above the earth's atmosphere at the push of a button. But these astonishing revelations are only the tip of the iceberg. Kaku also discusses emotional robots, antimatter rockets, X-ray vision, and the ability to create new life-forms, and he considers the development of the world economy. He addresses the key questions: Who are the winner and losers of the future? Who will have jobs, and which nations will prosper? All the while, Kaku illuminates the rigorous scientific principles, examining the rate at which certain technologies are likely to mature, how far they can advance, and what their ultimate limitations and hazards are. Synthesizing a vast amount of information to construct an exciting look at the years leading up to 2100, *Physics of the Future* is a thrilling, wondrous ride through the next 100 years of breathtaking scientific revolution.

THE MECHANICAL NEWS

AN ILLUSTRATED JOURNAL OF MANUFACTURING, ENGINEERING, MILLING AND MINING

SHAPING THE NEXT ONE HUNDRED YEARS

NEW METHODS FOR QUANTITATIVE, LONG-TERM POLICY ANALYSIS

THE AMERICAN BEE KEEPER

THE LIFE AND TIMES OF STEPHEN HAWKINGS

Prabhat Prakashan Stephen Hawking is one of the greatest geniuses of our time. After Albert Einstein; he is one of the most brilliant theoretical physicists in history. Though this great cosmologist is afflicted with ALS (Lou Gehrig's disease); it did not deter him from pursuing Physics. This book is an unbeatable person's biography in an engaging manner. It sketches a candid portrait of this one of a kind personality giving insight into his personal and professional life. In a simple language; the complex and confuing world of science have been explained that Hawking as a scientist has traversed through his life. Thus it is comprehensible to even a lay person. The book unravels the life of Hawking's from the time he was a college student; to becoming a great cosmologist. An inspiring book which will help the reader know one of the greatest minds of the present age.

THE ADVENTURER

APPLE IN DREAM LAND

A ROMANTIC AND THRILLER NOVEL

Notion Press It's a romantic and thriller novel. English and Apple are the starrers (main characters) of this novel. English is 21 years old, and Apple is 18. Both became lovers in a forest-like area near Hyde Park. Both English and Apple have been kidnapped by aliens to an unknown planet. And they escaped from them and returned to earth. The earth then has no water, air and living beings. Meanwhile, the lifespan of the sun came to an end, and thus became a red giant. The red giant engulfs the entire earth at a faster pace. Both English and Apple try to escape the power of the red giant. The climax of the story follows then.

MEET THE NEW DAWN

Diversion Books In this totally unforgettable sixth book in the *Savage Destiny* series, a relentless wave of frontier progress forces itself into the lives of Zeke and Abbie Monroe, threatening their many years of abiding love and forcing a separation unlike any other they have experienced. Zeke joins the Cheyenne in their last effort to hold on to the freedom they knew until the white man invaded their pristine domain and destroyed their game, their hunting grounds, their beautiful innocence. *Meet the New Dawn* is a keenly powerful and poignant story about the last years of Zeke and Abbie Monroe's life together, and how their love and their passion for each other lingers on into their twilight years as proof that age and the challenges of life cannot dim the love these two share, a love that causes a man and woman to see each other only as the fifteen-year-old girl who once touched a savage older man's hand over a campfire, a touch that changed both their lives forever. Get out the Kleenex for this powerful read you will never, ever forget! PRAISE: "Power, passion, tragedy, and triumph are Rosanne Bittner's hallmarks. Again and again, she brings readers to tears." —Romantic Times "Extraordinary...Bittner's characters spring to life." —Publishers Weekly

THE MEDICAL WORLD

THE HUNDRED THOUSAND KINGDOMS

Orbit After her mother's mysterious death, a young woman is summoned to the floating city of Sky in order to claim a royal inheritance she never knew existed in the first book in this award-winning fantasy trilogy from the NYT bestselling author of *The Fifth Season*. Yeine Darr is an outcast from the barbarian north. But when her mother dies under mysterious circumstances, she is summoned to the majestic city of Sky. There, to her shock, Yeine is named an heiress to the king. But the throne of the Hundred Thousand Kingdoms is not easily won, and Yeine is thrust into a vicious power struggle with cousins she never knew she had. As she fights for her life, she draws ever closer to the secrets of her mother's death and her family's bloody history. With the fate of the world hanging in the balance, Yeine will learn how perilous it can be when love and hate - and gods and mortals - are bound inseparably together. The

Inheritance Trilogy The Hundred Thousand Kingdoms The Broken Kingdoms The Kingdom of Gods The Inheritance Trilogy (omnibus edition) Shades in Shadow: An Inheritance Triptych (e-only short fiction) The Awakened Kingdom (e-only novella) For more from N. K. Jemisin, check out: Dreamblood Duology The Killing Moon The Shadowed Sun The Broken Earth The Fifth Season The Obelisk Gate The Stone Sky

ROUTLEDGE HANDBOOK OF URBAN PLANNING IN AFRICA

Routledge This handbook contributes with new evidence and new insights to the on-going debate on the de-colonization of knowledge on urban planning in Africa. African cities grew rapidly since the mid-20th century, in part due to rising rural migration and rapid internal demographic growth that followed the independence in most African countries. This rapid urbanization is commonly seen as a primary cause of the current urban management challenges with which African cities are confronted. This importance given to rapid urbanization prevented the due consideration of other dimensions of the current urban problems, challenges and changes in African cities. The contributions to this handbook explore these other dimensions, looking in particular to the nature and capacity of local self-government and to the role of urban governance and urban planning in the poor urban conditions found in most African cities. It deals with current and contemporary urban challenges and urban policy responses, but also offers an historical overview of local governance and urban policies during the colonial period in the late 19th and 20th centuries, offering ample evidence of common features, and divergent features as well, on a number of facets, from intra-urban racial segregation solutions to the relationships between the colonial power and the natives, to the assimilation policy, as practiced by the French and Portuguese and the Indirect Rule put in place by Britain in some or in part of its colonies. Using innovative approaches to the challenges confronting the governance of African cities, this handbook is an essential read for students and scholars of Urban Africa, urban planning in Africa and African Development.

TOWARD THE YEAR 2018

SYMPOSIUM

MOON BEAM

Baen Books **STAY ALIVE ON THE FAR SIDE OF THE MOON** What happens when you get the one thing you wanted most in life? Lonely 16-year-old farm girl Barbara Winton has been following one reality show for years. Then in an instant she goes from fangirl to participant when the call comes from Dr. Keegan Bright: She's been selected out of a horde of applicants to join him on the Moon. She'll be one of his Bright Sparks, six students with expertise in STEM and plenty of their own ingenuity chosen to work with Dr. Bright and given big responsibilities to undertake new projects important to the growth of the colony. Her first task? Build a radar telescope using an entire crater on the far side of the Moon. But Barbara soon learns that life on a burgeoning frontier outpost like the Moon is a far cry from safe, civilized Earth. The loner from farm country must find a way to weld a functional team out of fiercely independent thinkers. Not only are they a bit trickier to work with than farm robots, not only is the working environment incredibly dangerous—she also has to perform this miracle in front of millions of fans. . . . Lexile Score: 770 At the publisher's request, this title is sold without DRM (Digital Rights Management). Praise for the work of Jody Lynn Nye: "Infused with humor to keep you entertained and action to make you turn the pages."—Kirkus on Jody Lynn Nye's *Rhythm of the Imperium* "I thoroughly enjoyed it, the plot, the settlement, the whole nine yards, and especially the twitch of humor at odd moments...a book I can thoroughly recommend." —Anne McCaffrey "An unusual story well-told, with characters it's a real pleasure to spend time with." —David Drake "[An] innovative take on the well-loved theme of fairies and dangerous wishes." —Publishers Weekly on *Wishing on a Star* by Jody Lynn Nye and Angelina Adams About Travis S. Taylor: "[E]xplodes with inventive action.—Publishers Weekly on Travis S. Taylor's *The Quantum Connection*. "[Warp Speed] reads like Doc Smith writing Robert Ludlum. . . You won't want to put it down"—John Ringo

BOREHOLE CLIMATOLOGY

A NEW METHOD HOW TO RECONSTRUCT CLIMATE

Elsevier Climate for the 21st century is expected to be considerably different from the present and recent past. Industrialization growth combined with the increasing CO₂ concentration in the atmosphere and massive deforestation are well above the values over the past several decades and are expected to further grow. Air temperature is rising rapidly well as does the weather variability producing frequent extreme events. Six of the ten warmest years occurred in the 1990s. Temperatures predicted for the 21st century ranges well above the present day value. The time period of the last 100-200 years covered by the direct meteorological observations is too short and does not provide material to reliably assess what may happen over the next hundred(s) years. A faithful prediction of the future requires understanding how climate system works, i.e. to reconstruct past climate much further in the past. Borehole paleoclimatology enables climate reconstruction of the past several millennia, unlike proxy methods provides direct past temperature assessment and can well broaden the areal range to the remote regions poorly covered with meteorological observations. Considerable debates have recently focused on the causes of the present-day warming, i.e. to distinguish between the natural and anthropogenic contribution to the observed temperature increase, eventually to quantify their regional distribution. Complex interpretation of borehole data with the proxies and additional socio-economic information can hopefully help. On observed data taken in various places all over the world we demonstrate suitable examples of the interaction between the subsurface temperature response to time changes in

vegetation cover, land-use (farming) and urbanization. Precise temperature-time monitoring in shallow subsurface can further provide the magnitude of the present-day warming within relatively short time intervals. As far as we know, there exists so far no book dealing entirely with the subject of the Borehole climatology. Only relatively rarely this method is mentioned in otherwise plentiful literature on climate reconstruction or on climate modelling. There are, however, series of papers focussing on various borehole--climate related studies in numerous journals (e.g. Global and Planetary Change, Climate Change, Tectonophysics, Journal of Geophysical Research, Geophysical Research Letters, etc). Time to time a special issue appears to summarize papers on this topic presented during specialized symposia.

Key Features - Description of a new useful alternative paleoclimate reconstruction method - A suitable source of information for those wishing to learn more about climate change - Material for lecturing and use in the classroom - Ample practical examples of borehole temperature inversions worldwide - Ample illustrations and reference list - Authors have a good knowledge of the problem based on more than 20 years of experience, one of them actually pioneered the method

A HISTORY OF THE TOWN OF BRIGHTLINGSEA

A MEMBER OF THE CINQUE PORTS

RELIGIOUS TELESCOPE

PRINCIPLES OF GEOLOGY; OR, THE MODERN CHANGES OF THE EARTH AND ITS INHABITANTS CONSIDERED AS ILLUSTRATIVE OF GEOLOGY

ODYSSEY

Penguin To overcome humankind's waning interest in interstellar travel, a special deep space mission is sent to uncover the truth about "moonriders," strange lights witnessed in nearby systems, but the team soon discovers that their mission has become far more dangerous when they stumble upon the perilous truth about the moonriders. Reprint.

HOW TO EDUCATE AN AMERICAN

THE CONSERVATIVE VISION FOR TOMORROW'S SCHOOLS

Templeton Foundation Press In the years after *A Nation at Risk*, conservatives' ideas to reform America's lagging education system gained much traction. Key items like school choice and rigorous academic standards drew bipartisan support and were put into practice across the country. Today, these gains are in retreat, ceding ground to progressive nostrums that do little to boost the skills and knowledge of young people. Far from being discouraged, however, conservatives should seize the moment to refresh their vision of quality K-12 education for today's America. These essays by 20 leading conservative thinkers do just that. Students, according to this vision, should complete high school with a thorough understanding of the country's history, including gratitude for its sacrifices, respect for its achievements, and awareness of its shortcomings. They should also learn to be trustworthy stewards of a democratic republic, capable of exercising virtue and civic responsibility. Beyond helping to form their character, schools ought to ready their pupils for careers that are productive, rewarding, and dignified. Excellent technical-training opportunities will await those not headed to a traditional college. Regardless of the paths and schools that they select, all students must come to understand that they can succeed in America if they are industrious, creative, and responsible. Anchored in tradition yet looking towards tomorrow, *How to Educate an American* should be read by anyone concerned with teaching future generations to preserve the country's heritage, embody its universal ethic, and pursue its founding ideals.

THIS BUSINESS OF LIVING

Transaction Publishers On June 23rd, 1950, Pavese, Italy's greatest modern writer received the coveted Strega Award for his novel *Among Women Only*. On August 26th, in a small hotel in his home town of Turin, he took his own life. Shortly before his death, he methodically destroyed all his private papers. His diary is all that remains and for this the contemporary reader can be grateful. Contemporary speculation attributed this tragedy to either an unhappy love affair with the American film star Constance Dawling or his growing disillusionment with the Italian Communist Party. His Diaries, however, reveal a man whose art was his only means of repressing the specter of suicide which had haunted him since childhood: an obsession that finally overwhelmed him. As John Taylor notes, he possessed something much more precious than a political theory: a natural sensitivity to the plight and dignity of common people, be they bums, priests, grape-pickers, gas station attendants, office workers, or anonymous girls picked up on the street (though to women, the author could--as he admitted--be as misogynous as he was affectionate). Bitter and incisive, *This Business of Living*, is both moving and painful to read and stands with James Joyce's *Letters* and Andre Gide's *Journals* as one of the great literary testaments of the twentieth century. Cesare Pavese (1908-1950), was educated in Turin. In 1930 he began to contribute essays on American literature to *La Cultura*, of which he later became editor. In 1935 he was imprisoned for anti-fascist activities. This experience formed the basis of *The Political Prisoner*. Between 1936 and

1940 nine of his books were published in Italy, these included novels, short stories, poetry and essays. His books have been filmed and dramatized, and translated into many languages. John Taylor, a frequent contributor to the Times Literary Supplement, Context, the Yale Review, the Antioch Review, the Michigan Quarterly Review, and Chelsea, has introduced numerous European writers and poets to English readers, often for the first time. Some of his works include The Apocalypse Tapestries, Paths to Contemporary French Literature (Volumes 1 and 2) and Into the Heart of European Poetry.

LIFE IN 2050

HOW WE INVENT THE FUTURE TODAY

RAILWAY CARMEN'S JOURNAL

THE NEXT DECADE

WHERE WE'VE BEEN . . . AND WHERE WE'RE GOING

Anchor The author of the acclaimed New York Times bestseller *The Next 100 Years* now focuses his geopolitical forecasting acumen on the next decade and the imminent events and challenges that will test America and the world, specifically addressing the skills that will be required by the decade's leaders. In the long view, history is seen as a series of events—but the course of those events is determined by individuals and their actions. During the next ten years, individual leaders will face significant transitions for their nations: the United States' relationships with Iran and Israel will be undergoing changes, China will likely confront a major crisis, and the wars in the Islamic world will subside. Unexpected energy and technology developments will emerge, and labor shortages will begin to matter more than financial crises. Distinguished geopolitical forecaster George Friedman analyzes these events from the perspectives of the men and women leading these global changes, focusing in particular on the American president, who will require extraordinary skills to shepherd the United States through this transitional period. *The Next Decade* is a provocative and fascinating look at the conflicts and opportunities that lie ahead.

THE AMERICAN PRESSMAN

THE ORIGIN AND FUTURE OF MANKIND

AuthorHouse Aristotle thought nine concentric spheres encircled the earth, the outermost being the heavens. Claudius Ptolemy thought planets moved in small circles spinning around larger spheres. Copernicus came along and proclaimed the sun the center of the solar system. So where did it all begin? Over the centuries, there have been many theories on how the universe evolved, both secular and religious. This book reveals the truth. From the earliest hunter gatherers, to warlords, to Roman emperors, and other dynasties, this book surveys the empires of old to modern times. It also delves into a variety of scientific theories, the nature of black holes, and more. Finally, the book considers what might happen in the next hundred years, the next one thousand years, and beyond.

MONTREAL PHARMACEUTICAL JOURNAL

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