Ignition An Informal History Of Liquid Rocket Propellants Unknown Binding John D Clark

Meat eating is often a contentious subject, whether considering the technical, ethical, environmental, political, or health-related aspects of production and consumption. This book is a wide-ranging and interdisciplinary examination and critique of meat consumption by humans, throughout their evolution and around the world. Setting the scene with a chapter on meat's role in human evolution and its growing influence during the development of agricultural practices, the book goes on to examine modern production systems, their efficiencies, outputs, and impacts. The major global trends of meat consumption are described in order to find out what part its consumption plays in changing modern diets in countries around the world. The heart of the book addresses the consequences of the "massive carnivory" of western diets, looking at the inefficiencies of production and at the huge impacts on land, water, and the atmosphere. Health impacts are also covered, both positive and negative. In conclusion, the author looks forward at his vision of "rational meat eating", where environmental and health impacts are reduced, animals are treated more humanely, and alternative sources of protein make a higher contribution. Should We Eat Meat? is not an ideological tract for or against carnivorousness but rather a careful evaluation of meat's roles in human diets and the environmental and health consequences of its production and consumption. It will be of interest to a wide readership including professionals and academics in food and agricultural production, human health and nutrition, environmental science, and regulatory and policy making bodies around the world.

Forces make the world go 'round - literally. This book provides a quick and easy-to-understand introduction to the quantity force and an overview of the many types of forces that shape our universe. Besides enlightening and down-to-earth explanations, you'll find plenty of detailed exercises demonstrating how the concepts and formulas can be applied to real-world situations. Knowledge of high school algebra is sufficient to follow the calculations. For more information, check out the table of contents.From the author of "Physics! In Quantities and Examples", "Introduction to Stars: Spectra, Formation, Evolution, Collapse" and the "Great Formulas Explained" series.

The secret history of the invention that changed everything-and became the most profitable product in the world. NATIONAL BESTSELLERShortlisted for the Financial Times Business Book of the Year Award One of the Best Business Books of 2016 - CNBC, Bloomberg, 1-800-CEO-Read "The One Device is a tour de force, with a fast-paced edge and heaps of analytical insight." -Ashlee Vance, New York Times bestselling author of Elon Musk "A stunning book. You will never look at your iPhone the same way again." -Dan Lyons, New York Times bestselling author of Disrupted Odds are that as you read this, an iPhone is within reach. But before Steve Jobs introduced us to "the one device," as he called it, a cell phone was merely what you used to make calls on the go. How did the iPhone transform our world and turn Apple into the most valuable company ever? Veteran technology journalist Brian Merchant reveals the inside story you won't hear from Cupertino-based on his exclusive interviews with the engineers, inventors, and developers who guided every stage of the iPhone's creation. This deep dive takes you from inside One Infinite Loop to 19th century France to WWII America, from the driest place on earth to a Kenyan pit of toxic e-waste, and even deep inside Shenzhen's notorious "suicide factories." It's a firsthand look at how the cutting-edge tech that makes the world work-touch screens, motion trackers, and even AI-made their way into our pockets. The One Device is a roadmap for design and engineering genius, an anthropology of the modern age, and an unprecedented view into one of the most secretive companies in

history. This is the untold account, ten years in the making, of the device that changed everything.

The instant New York Times bestseller! A Wall Street Journal Best Science Book of the Year! A Popular Science Best Science Book of the Year! From a top scientist and the creator of the hugely popular web comic Saturday Morning Breakfast Cereal, a hilariously illustrated investigation into future technologies -- from how to fling a ship into deep space on the cheap to 3D organ printing What will the world of tomorrow be like? How does progress happen? And why do we not have a lunar colony already? What is the hold-up? In this smart and funny book, celebrated cartoonist Zach Weinersmith and noted researcher Dr. Kelly Weinersmith give us a snapshot of what's coming next -- from robot swarms to nuclear fusion powered-toasters. By weaving their own research, interviews with the scientists who are making these advances happen, and Zach's trademark comics, the Weinersmiths investigate why these technologies are needed, how they would work, and what is standing in their way. New technologies are almost never the work of isolated geniuses with a neat idea. A given future technology may need any number of intermediate technologies to develop first, and many of these critical advances may appear to be irrelevant when they are first discovered. The journey to progress is full of strange detours and blind alleys that tell us so much about the human mind and the march of civilization. To this end, Soonish investigates ten different emerging fields, from programmable matter to augmented reality, from space elevators to robotic construction, to show us the amazing world we will have, you know, soonish. Soonish is the perfect gift for science lovers for the holidays!

An Introduction to the Engineering of Rockets

Evolution and Consequences of Modern Carnivory

It's ONLY Rocket Science

Sidewinder

The Story of Radiation

More than ever before, radiation is a part of our modern daily lives. We own radiation-emitting phones, regularly get diagnostic x-rays, such as mammograms, and submit to full-body security scans at airports. We worry and debate about the proliferation of nuclear weapons and the safety of nuclear power plants. But how much do we really know about radiation? And what are its actual dangers? An accessible blend of narrative history and science, Strange Glow describes mankind's extraordinary, thorny relationship with radiation, including the hard-won lessons of how radiation helps and harms our health. Timothy Jorgensen explores how our knowledge of and experiences with radiation in the last century can lead us to smarter personal decisions about radiation exposures today. Jorgensen introduces key figures in the story of radiation—from Wilhelm Roentgen, the discoverer of x-rays, and pioneering radioactivity researchers Marie and Pierre Curie, to Thomas Edison and the victims of the recent Fukushima Daiichi nuclear power plant accident. Tracing the most important events in the evolution of radiation, Jorgensen explains exactly what radiation is, how it produces certain health consequences, and how we can protect ourselves from harm. He also considers a range of practical scenarios such as the risks of radon in our basements, radiation levels

in the fish we eat, questions about cell-phone use, and radiation's link to cancer. Jorgensen empowers us to make informed choices while offering a clearer understanding of broader societal issues. Investigating radiation's benefits and risks, Strange Glow takes a remarkable look at how, for better or worse, radiation has transformed our society.
"A lighthearted, entertaining trip down Memory Lane" (Kirkus Reviews), Don't Make Me Pull Over! offers a nostalgic look at the golden age of family road trips—before portable DVD players, smartphones, and Google Maps. The birth of America's first interstate highways in the 1950s hit the gas pedal on the road trip phenomenon and families were soon streaming—sans seatbelts!—to a range of sometimes stirring, sometimes wacky locations. In the days before cheap air travel, families didn't so much take vacations as survive them. Between home and destination lay thousands of miles and dozens of annoyances, and with his family Richard Ratay experienced all of them—from being crowded into the backseat with noogie-happy older brothers, to picking out a souvenir only to find that a better one might have been had at the next attraction, to dealing with a dad who didn't believe in bathroom breaks. Now, decades later, Ratay offers "an amiable guide…fun and informative" (New York Newsday) that "goes down like a cold lemonade on a hot summer's day" (The Wall Street Journal). In hundreds of amusing ways, he reminds us of what once made the Great American Family Road Trip so great, including twenty-foot "land yachts," oasis-like Holiday Inn "Holidomes," "Smokey"-spotting Fuzzbusters, twenty-eight glorious flavors of Howard Johnson's ice cream, and the thrill of finding a "good buddy" on the CB radio. An "informative, often hilarious family narrative [that] perfectly captures the love-hate relationship many have with road trips" (Publishers Weekly), Don't Make Me Pull Over! reveals how the family road trip came to be, how its evolution mirrored the country's, and why those magical journeys that once brought families together—for better and worse—have largely disappeared.
Most amateur astronomers – and many of those with similar interests but who are not currently practising observers – have only a sketchy understanding of space flight. This book provides an introduction to its mechanics. The beauty of this book, written by an engineer who is also an accomplished science writer, is that it covers the subject comprehensively, and yet is almost entirely descriptive and non-mathematical. It deals with all aspects of space flight, from how to leave the Earth (including the design of the rocket, mission planning, navigation and communication), to life in space and the effects of weightlessness. The book also includes sections describing how an amateur can track satellites and understand their orbital parameters.
An instant bestseller when first published in 1929—biographies of twelve bold individuals from history and what they did to separate themselves from the pack. In his trademark journalist style, author William Bolitho details the lives of twelve great adventurers—Alexander the Great, Casanova, Christopher Columbus, Mahomet, Lola Montez,

Cagliostro (and Seraphina), Charles XII of Sweden, Napoleon I, Lucius Sergius Catiline, Napoleon III, Isadora Duncan, and Woodrow Wilson. Bolitho elucidates both the struggles and successes that made these figures so iconic, and demonstrates how they all battled convention and conformity to achieve enduring fame and notoriety. "We are born adventurers," Bolitho writes, "and the love of adventures never leaves us till we are very old; old, timid men, in whose interest it is that adventure should quite die out. This is why all the poets are on one side, and all the laws on the other; for laws are made by, and usually for, old men." Though his essays are nearly one hundred years old, they encompass the timeless values of perseverance, bravery, and strength of spirit that have proven to resonate with the pioneers and thought leaders of today. "It's really quite good." —Elon Musk "Twelve Against the Gods provides an interesting perspective on what drove and impeded this group of adventurers . . . A good read for anyone who's interested in history or looking to find some motivation to switch things up and break the rules." —Áine Cain, Business Insider "I think Twelve Against the Gods is also very appropriate for this day and age. We need adventurers, and there still are a lot of adventurers." —China Ryall, daughter of William Bolitho

Fifty Solutions to the Fermi Paradox and the Problem of Extraterrestrial Life

The History of Hormones and how They Control Just about Everything

Modern Engineering for Design of Liquid-Propellant Rocket Engines

Understanding Physics

A Personal Memoir of My Years of Lockheed

Introduction to Space Dynamics

How One Man Masterminded the Soviet Drive Beat America to the Moon. "Fascinating . . . packed with technical and historical detail for the space expert and enthusiast alike . . . Great stuff!" – New Scientist "In this exceptional book, James Harford pieces together a most compelling and well – written tale. . . . Must reading." – Space News. "Through masterful research and an engaging narrative style, James Harford gives the world its first in – depth look at the man who should rightly be called the father of the Soviet space program." – Norman R. Augustine, CEO, Lockheed Martin. "In Korolev, James Harford has written a masterly biography of this enigmatic ' Chief Designer ' whose role the Soviets kept secret for fear that Western agents might ' get at ' him." – Daily Telegraph. "Harford ' s fluency in Russian and his intimate knowledge of space technology give us insights that few, if any, Americans and Russians have had into this dark history of Soviet space." – Dr. Herbert Friedman, Chief Scientist, Hulburt Center for Space Research Naval Research Laboratory. "Reveals the complex, driven personality of a man who, despite unjust imprisonment in the Gulag, toiled tirelessly for the Soviet military industrial complex. . . . More than just a biography, this is also a history of the Soviet space program at the height of the Cold War. . . . Highly recommended." – Library Journal. "For decades the identity of the Russian Chief Designer who shocked the world with the launching of the first Sputnik was one of the Soviet Union ' s best – kept secrets. This book tells vividly the story of that man, Sergei Korolev, in remarkable detail, with many facts and anecdotes previously unavailable to the West." – Sergei Khrushchev, Visiting Senior Fellow, Center for Foreign Policy Development.

In the mid-1950s a small group of overworked, underpaid scientists and engineers, working on a remote base in the Mojave Desert, developed a weapon no

one had asked for but that everyone was looking for. Sidewinder is the story of how that unorthodox team at China Lake, lead by the visionary Bill McLean, overcame Navy bureaucracy and more heavily funded projects to develop the world's best air-to-air missile. Based on years of research and hundreds of interviews, Westrum ' s study examines the unique military-civilian cult of creativity that helped Mclean and his China Lake team produce an amazing array of technological and engineering marvels. In the intellectual pressure cooker provided by the desert isolation, the scientists dreamed and tinkered while test pilots such as Wally Schirra and Glenn Tierney took to the air, often risking life and limb to test a fledgling system. Against the ongoing story of billion-dollar weapons development contracts, astronomical cost overruns, and defense acquisitions scandals, this revealing, highly readable account of the development of one of the most successful weapons in history provides an instructive contrast.

This bestselling reference guide contains the most reliable and comprehensive material on launch programs in Brazil, China, Europe, India, Israel, and the United States. Packed with illustrations and figures, this edition has been updated and expanded, and offers a quick and easy data retrieval source for policy makers, planners, engineers, launch buyers, and students.

A guided tour through the strange science of hormones and the age-old quest to control them.

The Conan the Barbarian Stories

Structures or Why things don ' t fall down

Ignition!

Creative Missile Development at China Lake

If the Universe Is Teeming with Aliens ... WHERE IS EVERYBODY?

Aroused

Teams are the fundamental building blocks of today's organizations, yet only 1 in 5 are high performing. Most teams need help, and Ignition provides practical guidance on how to overcome common team challenges. Featured in the book are 12 case studies, complete with off-site designs and step-by-step instructions for facilitating 40 field-tested team improvement activities. Team leader and facilitator support materials, such as downloadable Power Point decks, forms, handouts and relevant articles are also included. The book content is fully integrated with the Team Assessment Survey, which provides teams with benchmarking feedback on performance.

.

This newly reissued debut book in the Rutgers University Press Classics Imprint is the story of the search for a rocket propellant which could be trusted to take man into space. This search was a hazardous enterprise carried out by rival labs who worked against the known laws of nature, with no guarantee of success or safety. Acclaimed scientist and sci-fi author John Drury Clark writes with irreverent and eyewitness immediacy about the development of the explosive fuels strong enough to negate the relentless restraints of gravity. The resulting volume is as much a memoir as a work of history, sharing a behind-the-scenes view of an enterprise which eventually took men to the moon, missiles to the planets, and satellites to outer space. A classic work in the history of science, and described as "a good book on rocket stuff…that's a really fun one" by SpaceX founder Elon Musk, readers will want to get

their hands on this influential classic, available for the first time in decades.
From "America's nerviest journalist" (Newsweek)--a breath-taking epic, a magnificent adventure story, and an investigation into the true heroism and courage of the first Americans to conquer space. "Tom Wolfe at his very best" (The New York Times Book Review) Millions of words have poured forth about man's trip to the moon, but until now few people have had a sense of the most engrossing side of the adventure; namely, what went on in the minds of the astronauts themselves - in space, on the moon, and even during certain odysseys on earth. It is this, the inner life of the astronauts, that Tom Wolfe describes with his almost uncanny empathetic powers, that made The Right Stuff a classic.
An Informal History of the Family Road Trip
Orbital Mechanics for Engineering Students
Math Problems Based on Space Science
International Reference Guide to Space Launch Systems
Control System Design
The One Device

In this revised and expanded edition, H. Bruce Franklin brings the epic story of the superweapon and the American imagination into the ominous 21st century, demonstrating its continuing importance both to comprehending our current predicament and to finding ways to escape from it.

Ignition! is the inside story of the Cold War era search for a rocket propellant which could be trusted to take man into space. A favorite of Tesla and SpaceX founder Elon Musk, this "really good book on rocket[s]" is back in print for the first time in decades. Readers will want to get their hands on this irreverent and fascinating debut volume in the Rutgers Classics imprint.

I am very much aware that it is an act of extreme rashness to attempt to write an elementary book about structures. Indeed it is only when the subject is stripped of its mathematics that one begins to realize how difficult it is to pin down and describe those structural concepts which are often called' elementary'; by which I suppose we mean 'basic' or 'fundamental'. Some of the omis sions and oversimplifications are intentional but no doubt some of them are due to my own brute ignorance and lack of under standing of the subject. Although this volume is more or less a sequel to The New Science of Strong Materials it can be read as an entirely separate book in its own right. For this reason a certain amount of repetition has been unavoidable in the earlier chapters. I have to thank a great many people for factual information, suggestions and for stimulating and sometimes heated discussions. Among the living, my colleagues at Reading University have been generous with help, notably Professor W. D. Biggs (Professor of Building Technology), Dr Richard Chaplin, Dr Giorgio Jeronimidis, Dr Julian Vincent and Dr Henry Blyth; Professor Anthony Flew, Professor of Philosophy, made useful suggestions about the last chapter. I am also grateful to Mr John Bartlett, Consultant Neurosurgeon at the Brook Hospital. Professor T. P. Hughes of the University of the West Indies has been helpful about rockets and many other things besides. My secretary, Mrs Jean Collins, was a great help in times of trouble. Mrs Nethercot of Vogue was kind to me about

dressmaking. Mr Gerald Leach and also many of the editorial staff of Penguins have exercised their accustomed patience and helpfulness. Among the dead, I owe a great deal to Dr Mark Pryor - lately of Trinity College, Cambridge - especially for discussions about biomechanics which extended over a period of nearly thirty years. Lastly, for reasons which must surely be obvious, I owe a humble oblation to Herodotus, once a citizen of Halicamassus.

An action-packed collection of Conan the Barbarian's wild adventures. In this unparalleled collection from a literary mastermind, swordsman Conan the Barbarian faces powerful sorcerers, deadly creatures, and ruthless armies of thieves. With his character Conan the Barbarian, author Robert E. Howard single-handedly invented the genre that came to be known as sword and sorcery. In this volume are eighteen Conan stories, including a classic of dark fantasy, "The Phoenix and the Sword," and the classic adventure "The Devil in Iron." These timeless stories feature Conan the raw and dangerous youth, Conan the daring thief, Conan the swashbuckling pirate, and Conan the commander of armies, and bring to mind the pulp tales that dominated the mid-twentieth century. The Conan the Barbarian Stories includes "The Phoenix on the Sword," "The Scarlet Citadel," "The Tower of the Elephant," "Black Colossus," "The Slithering Shadow," "The Pool of the Black One," "Rogues in the House," "Gods of the North," "Shadows in the Moonlight," "Queen of the Black Coast," "The Devil in Iron," "The People of the Black Circle," "A Witch Shall be Born," "Jewels of Gwahlur," "Beyond the Black River," "Shadows in Zamboula," "Red Nails," and "The Hyborian Age." This ebook has been professionally proofread to ensure accuracy and readability on all devices.

The Secret History of the iPhone

The Book of Forces

An Informal History of Liquid Rocket Propellants

How One Man Masterminded the Soviet Drive to Beat America to the Moon

Don't Make Me Pull Over!

Should We Eat Meat?

A modern pedagogical treatment of the latest industry trends in rocket propulsion, developed from the authors' extensive experience in both industry and academia. Students are guided along a step-by-step journey through modern rocket propulsion, beginning with the historical context and an introduction to top-level performance measures, and progressing on to in-depth discussions of the chemical aspects of fluid flow combustion thermochemistry and chemical equilibrium, solid, liquid, and hybrid rocket propellants, mission requirements, and an overview of electric propulsion. With a wealth of homework problems (and a solutions manual for instructors online), real-life case studies and examples throughout, and an appendix detailing key numerical methods and links to additional online resources, this is a must-have guide for senior and first year graduate students looking to gain a thorough understanding of the topic along with practical tools that can be applied in industry.

Teaching text developed by U.S. Air Force Academy and designed as a first course emphasizes the universal variable formulation. Develops the basic two-body and n-body equations of motion; orbit determination; classical orbital elements, coordinate transformations; differential correction; more. Includes specialized applications to lunar and interplanetary flight, example problems, exercises. 1971 edition.

Orbital Mechanics for Engineering Students, Second Edition, provides an introduction to the basic concepts of space mechanics. These include vector kinematics in three dimensions; Newton's laws of motion and gravitation; relative motion; the vector-based solution of the classical two-body problem; derivation of Kepler's equations; orbits in three dimensions; preliminary orbit determination; and orbital maneuvers. The book also covers relative motion and the two-impulse rendezvous problem; interplanetary mission design using patched conics; rigid-body dynamics used to characterize the attitude of a space vehicle; satellite attitude dynamics; and the characteristics and design of multi-stage launch vehicles. Each chapter begins with an outline of key concepts and concludes with problems that are based on the material covered. This text is written for undergraduates who are studying orbital mechanics for the first time and have completed courses in physics, dynamics, and mathematics, including differential equations and applied linear algebra. Graduate students, researchers, and experienced practitioners will also find useful review materials in the book. NEW: Reorganized and improved discusions of coordinate systems, new discussion on perturbations and quarternions NEW: Increased coverage of attitude dynamics, including new Matlab algorithms and examples in chapter 10 New examples and homework problems

Ignition!An Informal History of Liquid Rocket PropellantsRutgers University Press

War Stars

The Story of Adventure

The Superweapon and the American Imagination

History of Liquid Propellant Rocket Engines

An Introduction to State-Space Methods

Rocket Boys

Introduction to Rocket Science and Engineering, Second Edition, presents the history and basics of rocket science, and examines design, experimentation, testing, and applications. Exploring how rockets work, the book covers the concepts of thrust, momentum, impulse, and the rocket equation, along with the

rocket engine, its components, and the physics involved in the generation of the propulsive force. The text also presents several different types of rocket engines and discusses the testing of rocket components, subsystems, systems, and complete products. The final chapter stresses the importance for rocket scientists and engineers to creatively deal with the complexities of rocketry.

Created by NASA for high school students interested in space science, this collection of worked problems covers a broad range of subjects, including mathematical aspects of NASA missions, computation and measurement, algebra, geometry, probability and statistics, exponential and logarithmic functions, trigonometry, matrix algebra, conic sections, and calculus. In addition to enhancing mathematical knowledge and skills, these problems promote an appreciation of aerospace technology and offer valuable insights into the practical uses of secondary school mathematics by professional scientists and engineers. Geared toward high school students and teachers, this volume also serves as a fine review for undergraduate science and engineering majors. Numerous figures illuminate the text, and an appendix explores the advanced topic of gravitational forces and the conic section trajectories.

Comprehensive, classic introduction to space-flight engineering for advanced undergraduate and graduate students provides basic tools for quantitative analysis of the motions of satellites and other vehicles in space.

The author traces the boyhood enthusiasm for rockets that eventually led to a career at NASA, describing how he built model rockets in the family garage in West Virginia, inspired by the launch of the Soviet satellite Sputnik. Reprint.

Twelve Against the Gods

Fundamentals of Astrodynamics

The Green Flame

The Right Stuff

Rocket Propulsion Elements

Ignition

Widely known and used throughout the astrodynamics and aerospace engineering communities, this teaching text was developed at the U.S. Air Force Academy. Completely revised and updated 2013 edition.

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

In a 1950 conversation at Los Alamos, four world-class scientists generally agreed, given the size of the Universe, that

advanced extraterrestrial civilizations must be present. But one of the four, Enrico Fermi, asked, "If these civilizations do exist, where is everybody?" Given the fact that there are perhaps 400 million stars in our Galaxy alone, and perhaps 400 million galaxies in the Universe, it stands to reason that somewhere out there, in the 14 billion-year-old cosmos, there is or once was a civilization at least as advanced as our own. Webb discusses in detail the 50 most cogent and intriguing solutions to Fermi's famous paradox.

Liquid propellant rocket engines have propelled all the manned space flights, all the space vehicles flying to the planets or deep space, virtually all satellites, and the majority of medium range or intercontinental range ballistic missiles.

Soonish

Ignition: A Guide to Building High-Performing Teams

Rocket Propulsion

Introduction to Rocket Science and Engineering

Korolev

An Introduction in Plain English

Introduction to state-space methods covers feedback control; state-space representation of dynamic systems and dynamics of linear systems; frequency-domain analysis; controllability and observability; shaping the dynamic response; more. 1986 edition.

This classic history of America's high-stakes quest to dominate the skies is "a gripping technothriller in which the technology is real" (New York Times Book Review). From the development of the U-2 to the Stealth fighter, Skunk Works is the true story of America's most secret and successful aerospace operation. As recounted by Ben Rich, the operation's brilliant boss for nearly two decades, the chronicle of Lockheed's legendary Skunk Works is a drama of Cold War confrontations and Gulf War air combat, of extraordinary feats of engineering and human achievement against fantastic odds. Here are up-close portraits of the maverick band of scientists and engineers who made the Skunk Works so renowned. Filled with telling personal anecdotes and high adventure, with narratives from the CIA and from Air Force pilots who flew the many classified, risky missions, this book is a riveting portrait of the most spectacular aviation triumphs of the twentieth century. "Thoroughly engrossing." --Los Angeles Times Book Review

Motion, Sound, and Heat.

Howard Hughes: His Life and Madness

A Memoir

Space Mathematics

Ten Emerging Technologies That'll Improve and/or Ruin Everything

Skunk Works

Strange Glow