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Whoosh Boom Splat-William Gurstelle 2017-10-01 In this revised and expanded edition, William Gurstelle shows ordinary folks how to build a dozen fun and impressively powerful launchers with inexpensive household and hardware store materials. This new edition includes three new projects along with diagrams, photographs, and fascinating science information. With a strong emphasis on safety, the book also gives tips on troubleshooting and describes each machine's historical origins as well as the science behind it. Workshop warriors and tinkerers at any skill level will love these new exciting DIY projects.

Popular Science- 1955-02 Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Popular Science- 1955-05 Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

Popular Mechanics- 1955-02 Popular Mechanics inspires, instructs and influences readers to help them master the modern world. Whether it's practical DIY home-improvement tips, gadgets and digital technology, information on the newest cars or the latest breakthroughs in science -- PM is the ultimate guide to our high-tech lifestyle.

The Oil Engine and Gas Turbine- 1951

Popular Science- 2003-07

Fundamentals of Aircraft and Rocket Propulsion-Ahmed F. El-Sayed 2016-05-25 This book provides a comprehensive basics-to-advanced course in an aero-thermal science vital to the design of engines for either type of craft. The text classifies engines powering aircraft and single/multi-stage rockets, and derives performance parameters for both from basic aerodynamics and thermodynamics laws. Each type of engine is analyzed for optimum performance goals, and mission-appropriate engines selection is explained. Fundamentals of Aircraft and Rocket Propulsion provides information about and analyses of: thermodynamic cycles of shaft engines (piston, turboprop, turboshaft and propfan); jet engines (pulsejet, pulse detonation engine, ramjet, scramjet, turbojet and turbofan); chemical and non-chemical rocket engines; conceptual design of modular rocket engines (combustor, nozzle and turbopumps); and conceptual design of different modules of aero-engines in their design and off-design state. Aimed at graduate and final-year undergraduate students, this textbook provides a thorough grounding in the history and classification of both aircraft and rocket engines, important design features of all the engines detailed, and particular consideration of special aircraft such as unmanned aerial and short/vertical takeoff and landing aircraft. End-of-chapter exercises make this a valuable student resource, and the provision of a downloadable solutions manual will be of further benefit for course instructors.

Popular Mechanics Magazine-Henry Haven Windsor 1957

Pulsating Combustion-François Henri Reynst 1961

Theoretical and Numerical Combustion-Thierry Poinsot 2005 Introducing numerical techniques for combustion, this textbook describes both laminar and turbulent flames, addresses the problem of flame-wall interaction, and presents a series of theoretical tools used to study the coupling phenomena between combustion and acoustics. The second edition incorporates recent advances in unsteady simulation methods,

Triangular UFOs-David Marler 2013-06-17 For years, serious researchers have known that triangular-shaped UFOs are one of the most common types observed. The phenomenon has sparked intense debate among many and excited the imagination of many others. But until now, there has never been a book-length treatment of this fascinating subject.Finally, we have one. David Marler has provided a comprehensive analysis of "the triangles." He has collected, collated, and analyzed hundreds of reports. In the process, he has created a detailed profile of these objects and written a rich narrative of their history.Marler is well-suited to the task, having at his disposal an enormous collection of newspaper archives, declassified military reports, UFO books and journals, and the transcripts of many first-hand interviews he has conducted. He has also received input from many prominent individuals from within the military, FAA, Aerospace, and UFO research field.He tackles the arguments made by skeptics that dismiss these triangular UFO reports outright. He also address the claims of so-called insiders who claim these objects are a creation of the U.S. military.The results of his years of research are documented in his book, Triangular UFOs: An Estimate of the Situation. It is a book that has long been needed, not only by the UFO research community, but the general public, as it opens up an entirely new discussion that has long been ignored: who is making the triangles?

Airplane Aerodynamics and Performance-Jan Roskam 1997

The popular science monthly- 1956

Aeronautical Engineering Review- 1955

German V-Weapon Sites 1943-45-Steven J. Zaloga 2012-08-20 Designed to change the course of the war, the V weapons required ambitious plans to defend their expensive and complicated launch sites. Steven J Zaloga describes the configuration and planned deployment of heavy missile sites, as well as the unique Allied tactics developed to counter this threat, including a remote-control version of the B-17 bomber. From the V-1 ski sites to the mobile basing employed by the V-2 units and the other secret weapons bases like the 'V-3' high-pressure gun at Mimoyeques, this book examines the impact of these weapon systems and defences not only on the war but on modern weaponry. With many of the sites described still surviving today, this is a perfect companion for a tour of the V weapon sites built during World War II.

Democratizing Innovation-Eric von Hippel 2005 Innovation is rapidly becoming democratized. Users, aided by improvements in computer and communications technology, increasingly can develop their own new products and services.

Eric von Hippel looks closely at this emerging system of user-centred innovation.

Power- 1954-07

The Penguin Book of the Physical World-Sonya Larkin 1976

Energetics for Aircraft Auxiliary Power Systems-North Atlantic Treaty Organization. Advisory Group for Aerospace Research and Development. Propulsion and Energetics Panel 1972 ;Contents: Superconductivity; Auxiliary power units; Electrical power generation and distribution; Power distribution--hydraulic and pneumatic.

The Complete Book of Model Aircraft, Spacecraft and Rockets-Louis Heilbroner Hertz 1967

Aviation Daily, Including International Aviation- 1952-09

How to Build a Harley-Davidson Torque Monster-Bill Rook Many people modify their Harley-Davidson engines—and find the results disappointing. What they might not know—and what this book teaches—is that emphasizing horsepower over torque, the usual approach, makes for a difficult ride. Author Bill Rook has spent decades perfecting the art of building torque-monster V-twin Harley engines. Here he brings that experience to bear, guiding motorcycle enthusiasts through the modifications that make a bike not just fast but comfortable to ride. With clear, step-by-step instructions, his book shows readers how to get high performance out of their Harleys—and enjoy them, too.

Impact-Benjamin King 1998 It all began with a loose-knit group of scientists and engineers in Weimar Germany. Fixated on the idea of rocket propulsion, they formed "The Society for Space Travel" in 1927. Some people called them dreamers who gained their inspiration from Jules Verne and the movie "The Woman in the Moon." Their experiments with rockets often came to naught and sometimes blew up in their inventors' hands. Twelve years later, Adolf Hitler had plunged Germany into the most terrible war in history. By mid-1944, German armies were reeling on all fronts and vast Allied bomber fleets were devastating the Third Reich, while Germany had no strategic air force of its own. The Allies, after their conquest of Normandy, thought the war would be over by Christmas. But then the German rockets appeared. From the flaming continent of Europe, robot bombs with one-ton warheads suddenly came soaring against England. These sinister weapons took no evasive action and could not be deterred by bad weather or darkness -- they could not be stopped unless they were destroyed. This book provides rare, unpublished information on the terror that fell on Antwerp and the city of Liège in the winter of 1944-45. The rockets did not stop falling until their launch sites had been overrun by Allied troops. This work provides an operational context to the Third Reich's missiles that has previously been neglected or ignored. - Jacket flap.

Canadian Aviation- 1950

Systems of Commercial Turbofan Engines-Andreas Linke-Diesinger 2008-05-21 To understand the operation of aircraft gas turbine engines, it is not enough to know the basic operation of a gas turbine. It is also necessary to understand the operation and the design of its auxiliary systems. This book fills that need by providing an introduction to the operating principles underlying systems of modern commercial turbofan engines and bringing readers up to date with the latest technology. It also offers a basic overview of the tubes, lines, and system components installed on a complex turbofan engine. Readers can follow detailed examples that describe engines from different manufacturers. The text is recommended for aircraft engineers and mechanics, aeronautical engineering students, and pilots.

Adventures from the Technology Underground-William Gurstelle 2009-02-04 The technology underground is a thriving, humming, and often literally scintillating subculture of amateur inventors and scientific envelope-pushers who dream up, design, and build machines that whoosh, rumble, fly—and occasionally hurl pumpkins across enormous distances. In the process they astonish us with what is possible when human imagination and ingenuity meet nature's forces and materials. William Gurstelle spent two years exploring the most fascinating outposts of this world of wonders: meeting and talking to the men and women who care far more for the laws of physics than they do for mundane matters like government regulations and their own personal safety. Adventures from the Technology Underground is Gurstelle's lively and weirdly compelling report of his travels. In these pages we meet Frank Kosdon and others who draw the scrutiny of the FAA, ATF, and other federal agencies in their pursuit of high-power amateur rocketry, which they demonstrate to impressive—and sometimes explosive—effect at the annual LDRS gathering held in various remote and unpopulated areas (a necessary consideration since that acronym stands for Large Dangerous Rocket Ships). Here also are the underground technologists who turn up at the Burning Man festival in the Nevada high desert, including Lucy Hosking, “the engineer from Hell” and the creator of Satan's Calliope, aka the World's Loudest Thing, a pipe organ made from jet engines. Also at Burning Man is Austin “Dr. MegaVolt” Richard, who braves the arcing, sputtering, six-digit voltages of a giant Tesla coil in his protective metal suit. Add in a trip to see medieval-style catapults, air cannons, and supersized slingshots in action at the World Championship Punkin Chunkin competition in Sussex County, Delaware, and forays to the postapocalyptic enclaves of the flamethrower builders and the future-noir pits of the fighting robots, and you have proof positive that the age of invention is still going strong. In the world of science and engineering, despite its buttoned-down image, there's plenty of fun, humor, and sheer wonder to be found at the fringes. Adventures from the Technology Underground takes you there. • Launch homemade high-power rockets. • Catapult pumpkins the better part of a mile. • Watch robot gladiators saw, flip, and pound one another into high-tech junk heaps. • Dazzle the eye with electrical discharges measured in the hundreds of thousands of volts. • Play with flamethrowers, potato guns, and other decidedly unsafe toys . . . If this is your idea of fun, you'll have a major good time on this wild ride through today's Technology Underground. From the Burning Man festival in Nevada's high desert to the latest gathering of Large Dangerous Rocket Ship builders to Delaware's annual Punkin Chunkin competition (a celebration of “science, radical self-expression, and beer”), you'll meet the inspired, government-unregulated, and corporately unfettered men and women who operate at the furthest fringes of science, engineering, and wild-eyed arc welding, building the catapults, ultra-high-voltage electrical devices, incendiary artworks, fighting robots, and other machines that demonstrate what's possible when physics meets human ingenuity. From the Hardcover edition.

Combustion in Piston Engines-A. K. Oppenheim 2013-03-09 Combustion in Piston Engines presents the technique of pressure diagnostics to measure the fuel consumption in an engine cylinder and to monitor the operation of micro-electronic systems for its control. It provides a recipe for bridging the gap between the hydrocarbon-fed combustion technology of automotive powerplants of today and electro-magnetic technologies of the future. The author proposes and introduces a model for the design of a MECC (micro-electronically controlled combustion) systems to modulate combustion in engine cylinders. This system yields significant reduction in the formation of pollutants and the consumption of fuel, so that, eventually, emissions using any clean hydrocarbon fuel will be acceptable and gas mileage could be doubled.

Ford in the Service of America-Timothy J. O'Callaghan 2009-08-31 "Ford Motor Company's products during World Wars I and II: jeeps, Eagle Boats, B-24 Liberators, squad tents, the ultra precision gun director, tanks, and aircraft engines. Details of how Ford produced each product are included. During both wars, Ford used precision manufacturing methods and innovative designs and procedures, increasing quality while lowering production costs"--Provided by publisher.

Guided Missiles: Rockets & Torpedoes-Frank Ross 1951

ReMaking History, Volume 1-William Gurstelle 2016-07-18 William Gurstelle begins his remarkable journey through history with this volume, Early Makers. Each chapter examines a remarkable individual or group of people from the past whose insights and inventions helped create the world we live in. What sets this series apart from other history books - including other histories of technology - is that each chapter also includes step-by-step instructions for making your own version of the historical invention. History comes to life in a way you have never experienced before when you follow the inventors' stories and recreate the groundbreaking devices of the past with your own hands. In this volume you will discover: The Cave Dwellers of Lascaux and the Oil Lamp Pythagoras and the Tantalus Cup Heron and the Gin Pole Egypt's Bag Press Otto von Guerke and the Magdeburg Hemispheres Levi ben Gershon and the Jacob's Staff Juliana Berners and the Fishing Lure Archimedes and the Water Screw China's Differential Windlass Be sure to also check out ReMaking History, Volume 2: Industrial Revolutionaries and ReMaking History Volume 3:Makers of the Modern World.

Design News- 1981-09

Gas Turbine Engineering- 1981-03-01

Automotive Industries- 1952-07 Vols. for 1919- include an Annual statistical issue (title varies).

Commercial Aircraft Propulsion and Energy Systems Research-National Academies of Sciences, Engineering, and Medicine 2016-08-09 The primary human activities that release carbon dioxide (CO2) into the atmosphere are the combustion of fossil fuels (coal, natural gas, and oil) to generate electricity, the provision of energy for transportation, and as a consequence of some industrial processes. Although aviation CO2 emissions only make up approximately 2.0 to 2.5 percent of total global annual CO2 emissions, research to reduce CO2 emissions is urgent because (1) such reductions may be legislated even as commercial air travel grows, (2) because it takes new technology a long time to propagate into and through the aviation fleet, and (3) because of the ongoing impact of global CO2 emissions. Commercial Aircraft Propulsion and Energy Systems Research develops a national research agenda for reducing CO2 emissions from commercial aviation. This report focuses on propulsion and energy technologies for reducing carbon emissions from large, commercial aircraft“ single-aisle and twin-aisle aircraft that carry 100 or more passengers”because such aircraft account for more than 90 percent of global emissions from commercial aircraft. Moreover, while smaller aircraft also emit CO2, they make only a minor contribution to global emissions, and many technologies that reduce CO2 emissions for large aircraft also apply to smaller aircraft. As commercial aviation continues to grow in terms of revenue-passenger miles and cargo ton miles, CO2 emissions are expected to increase. To reduce the contribution of aviation to climate change, it is essential to improve the effectiveness of ongoing efforts to reduce emissions and initiate research into new approaches.

Skyways for Business- 1947

Lights Out-Thomas Gryta 2020-07-21 How could General Electric—perhaps America’s most iconic corporation—suffer such a swift and sudden fall from grace? This is the definitive history of General Electric’s epic decline, as told by the two Wall Street Journal reporters who covered its fall. Since its founding in 1892, GE has been more than just a corporation. For generations, it was job security, a solidly safe investment, and an elite business education for top managers. GE electrified America, powering everything from lightbulbs to turbines, and became fully integrated into the American societal mindset as few companies ever had. And after two decades of leadership under legendary CEO Jack Welch, GE entered the twenty-first century as America’s most valuable corporation. Yet, fewer than two decades later, the GE of old was gone. Lights Out examines how Welch’s handpicked successor, Jeff Immelt, tried to fix flaws in Welch’s profit machine, while stumbling headlong into mistakes of his own. In the end, GE’s traditional win-at-all-costs driven culture seemed to lose its direction, which ultimately caused the company’s decline on both a personal and organizational scale. Lights Out details how one of America’s all-time great companies has been reduced to a cautionary tale for our times.

Svensk-engelsk fackordbok för näringsliv, förvaltning, undervisning och forskning-Ingvar Emanuel Gullberg 1977

Steel Horizons- 1948

Whoosh Boom Splat-William Gurstelle 2010-04-14 These are the homemade machines that you've dreamed of building, from the high-voltage Night Lighter 36 spud gun to the Jam Jar Jet, the Marshmallow Shooter, and the Yagua Blowgun. Including detailed diagrams and supply lists, Gurstelle's simple, step-by-step instructions help workshop warriors at any skill level achieve impressively powerful results. With Whoosh Boom Splat, you can build: - The Jam Jar Jet—the simple pulse jet engine that roars - The Elastic Zip Cannon—a membrane-powered shooter that packs a wallop - The Mechanical Toe—a bungee-powered kicking machine - The Vortex Launcher—a projectile shooter that uses air bullets for ammunition - The Clothespin Snap Shooter—the PG-17 version of a clothespin gun that fires fiery projectiles - The Architrone—the steam-powered cannon conceived by Leonardo da Vinci And many more! In addition to learning how to make these cool gadgets, you'll find sections packed with information on what makes each machine unique. Gurstelle describes the machine's historical origins as only he can: with verve, fun, and the sort of quirky details his legions of fans love. Whoosh Boom Splat is a must-have for every extreme tinkerer. From the Trade Paperback edition.

Missile Contagion-Dennis M. Gormley 2008 Gormley breaks new ground in explaining why an epidemic of cruise missile proliferation, long forecasted by analysts, has only recently begun to occur. Mixing detailed analysis with policy prescription, this work offers new insight into the contagion's consequences and recommendations for adjusting policy to mitigate its effects.

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