

Amateur Rocket Motor Construction A Complete Guide To The Construction Of Homemade Solid Fuel Rocket Motors

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How to Make Amateur Rockets - John H. Wickman 2006

Handbook of Model Rocketry - George Harry Stine 1983

This National Association of Rocketry handbook covers designing and building your first model rocket to launching and recovery techniques, and setting up a launch area for competition.

Modern High-power Rocketry - Mark Canepa 2005

International conspiracy funded by unimaginable wealth and influence detected and destroyed by one determined man operating on the edge of accountability.

Popular Science - 1971-08

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.

Amateur Rocket Motor Construction - David Sleeter 2004

Make: High-Power Rockets - Mike Westerfield 2017-11-03

Make: High-Power Rockets is for all the science geeks who look at the moon and try to figure out

where Neil Armstrong walked, watch in awe as rockets lift off, and want to fly their own model rockets. Starting with an overview of mid- and high-power rocketry, readers will start out making rockets with F and G engines, and move on up to H engines.

The Chemistry and Technology of Solid Rocket Propellants (A Treatise on Solid Propellants) - T.L. Varghese 2017-01-03

The book is a treatise on solid propellants in nine chapters, covering the history, chemistry, energetics, processing and characterization aspects of composite solid propellants, internal ballistics, advanced solid propellants, safety, quality and reliability and homogenous or double base propellants. The book also traces the evolution of solid propellant technology in ISRO for launch vehicles and sounding rockets. There is a detailed table of contents, expanded index, glossary, exhaustive references and questions in each chapter. It can be used as a textbook for science and engineering students, as a reference book for researchers and as a companion to scientists and engineers working in the research, development and production areas of solid propellants.

Popular Mechanics - 1959-03

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.

Popular Science - 1972-06

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Popular Science - 1971-11

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Popular Science - 1971-04

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Popular Science - 1964-10

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Rocket Propulsion - Stephen D. Heister
2019-02-07

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.

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.

Popular Science - 1970-03

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Rocket and Spacecraft Propulsion - Martin J. L. Turner 2006-08-29

The revised edition of this practical, hands-on book discusses the launch vehicles in use today throughout the world, and includes the latest details on advanced systems being developed, such as electric and nuclear propulsion. The author covers the fundamentals, from the basic principles of rocket propulsion and vehicle dynamics through the theory and practice of liquid and solid propellant motors, to new and

future developments. He provides a serious exposition of the principles and practice of rocket propulsion, from the point of view of the user who is not an engineering specialist.

Small-Scale Aquaponic Food Production - Food and Agriculture Organization of the United Nations 2015-12-30

Aquaponics is the integration of aquaculture and soilless culture in a closed production system. This manual details aquaponics for small-scale production--predominantly for home use. It is divided into nine chapters and seven annexes, with each chapter dedicated to an individual module of aquaponics. The target audience for this manual is agriculture extension agents, regional fisheries officers, non-governmental organizations, community organizers, government ministers, companies and singles worldwide. The intention is to bring a general understanding of aquaponics to people who previously may have only known about one aspect.

Popular Mechanics - 1970-04

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Model Rocket Design and Construction - Timothy S. Van Milligan 2000-02-01

Guidelines Manual - United States Sentencing Commission 1988-10

Ammunition and Explosives Safety Standards - 1982

Ignition! - John Drury Clark 2018-05-23

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.

The Data Science Design Manual - Steven S. Skiena 2017-07-01

This engaging and clearly written textbook/reference provides a must-have introduction to the rapidly emerging interdisciplinary field of data science. It focuses on the principles fundamental to becoming a good data scientist and the key skills needed to build systems for collecting, analyzing, and interpreting data. The Data Science Design Manual is a source of practical insights that highlights what really matters in analyzing data, and provides an intuitive understanding of how these core concepts can be used. The book does not emphasize any particular programming language or suite of data-analysis tools, focusing instead on high-level discussion of important design principles. This easy-to-read text ideally serves the needs of undergraduate and early graduate students embarking on an “Introduction to Data Science” course. It reveals how this discipline sits at the intersection of statistics, computer science, and machine learning, with a distinct heft and character of its own. Practitioners in these and related fields will find this book perfect for self-study as well. Additional learning tools: Contains “War Stories,” offering perspectives on how data science applies in the real world Includes “Homework Problems,” providing a wide range of exercises and projects for self-study Provides a complete set of lecture slides and online video lectures at www.data-manual.com Provides “Take-Home Lessons,” emphasizing the big-picture concepts to learn from each chapter Recommends exciting “Kaggle Challenges” from the online platform Kaggle Highlights “False Starts,” revealing the subtle reasons why certain approaches fail Offers examples taken from the data science television show “The Quant Shop”

(www.quant-shop.com)

Make: Rockets - Mike Westerfield 2014-08-21

This book teaches the reader to build rockets--powered by compressed air, water, and solid propellant--with the maximum possible fun, safety, and educational experience. Make: Rockets is for all the science geeks who look at the moon and try to figure out where Neil Armstrong walked, watch in awe as rockets lift off, and want to fly their own model rockets. Starting with the basics of rocket propulsion, readers will start out making rockets made from stuff lying around the house, and then move on up to air-, water-, and solid propellant-powered rockets. Most of the rockets in the book can be built from parts in the Estes Designer Special kit.

Popular Science - 1976-09

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Popular Science - 1966-10

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Popular Science - 1967-01

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Challenge to Apollo - Asif A. Siddiqi 2000

The book received the Emme Award for Astronautical Literature at the March 20 2000 luncheon of the Goddard Memorial Symposium, sponsored by the American Astronautical Society. Named in honor of the first NASA Historian, Eugene Emme, the Emme award was created in 1982 to annually recognize an outstanding book that increases public understanding of the past and potential impact

of the field of astronautics.

Popular Science - 1977-01

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Easy PVC Rockets - Jason Smiley 2013-10

Easy PVC Rockets is a book on how to make your own model rocket engines at home with easy techniques and readily available materials.

Using only stump remover, powdered sugar, kitty litter, and some PVC pipe you can create a whole array of rocket engine designs ranging from small bottle rockets to large F class engines. Also in the book are homemade methods to creating your own model rockets, launch stands, and electrical ignition systems also from readily available materials.

Energiya-Buran - Bart Hendrickx 2007-12-05

This absorbing book describes the long development of the Soviet space shuttle system, its infrastructure and the space agency's plans to follow up the first historic unmanned mission. The book includes comparisons with the American shuttle system and offers accounts of the Soviet test pilots chosen for training to fly the system, and the operational, political and engineering problems that finally sealed the fate of Buran and ultimately of NASA's Shuttle fleet.

Forthcoming Books - Rose Army 1998-06

The Rocket Files: 2nd Edition: A Comprehensive Guide to Rocketry - Joseph Jimmerson 2013-03-13

Completely revised and updated version of the *The Rocket Files* by Joseph Jimmerson. This book is crucial for those starting out in rocketry as well as those making the transition into high-power and experimental rocketry. While continually drawing a link between hobby rockets and space launch vehicles, this book covers every aspect from propulsion and rocket design to payload sciences and ground support equipment. Twelve chapters chock full of over 200 images, advanced equations, detailed procedures, and expert advice from a rocket specialist guide prospective rocket scientists.

Popular Science - 1976-03

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Popular Science - 1966-11

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Large and Dangerous Rocket Ships - Mark Canepa 2019-09-17

There's no available information at this time. Author will provide once information is available.

Popular Science - 1970-01

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Popular Science - 1973-05

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Building Your Own Drones - John Baichtal 2015-08-25

Absolutely no experience needed! Build your drone, step-by-step, with this full-color, hands-on guide! You've heard about drones. You've seen drones. Now, build your own—it's a lot easier than you think! Drones are the newest frontier for the DIY/maker community, and you don't need to be a technical expert to build one. John Baichtal, the #1 author of hardware hacking books for beginners, will teach you all the skills you need. First, Baichtal shows you the amazing drones others have built. Then, he walks you through several complete projects: quadcopters, UAVs, ROVs, and more. Not ready to start from

scratch? No problem: Baichtal helps you choose from today's best new kits. Hundreds of full-color step-by-step photos teach you every step, every skill. When you're ready for more advanced concepts, Baichtal explains them in plain English. Discover what drones are and why they're so exciting Explore today's most imaginative projects, from 3D-printed mini quadcopters to floating robot armies Compare kits, from \$200 up: Parallax ELEV-8, DJI Phantom 2 Vision+, OpenROV, Actobotics Nomad, Brooklyn Aerodrome Flack, and more Create your own practical Drone Builder's Workbench Build complete rocket, blimp, waterborne, and automotive drones Construct

both fully autonomous and radio-controlled drones Choose and assemble your chassis (airframe), motor, props, flight control, power system, accessories, and software Integrate Arduino to make radio-controlled drones operate autonomously Teach a drone to navigate via RFID tags Learn all the basic electronics and programming you'll need

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