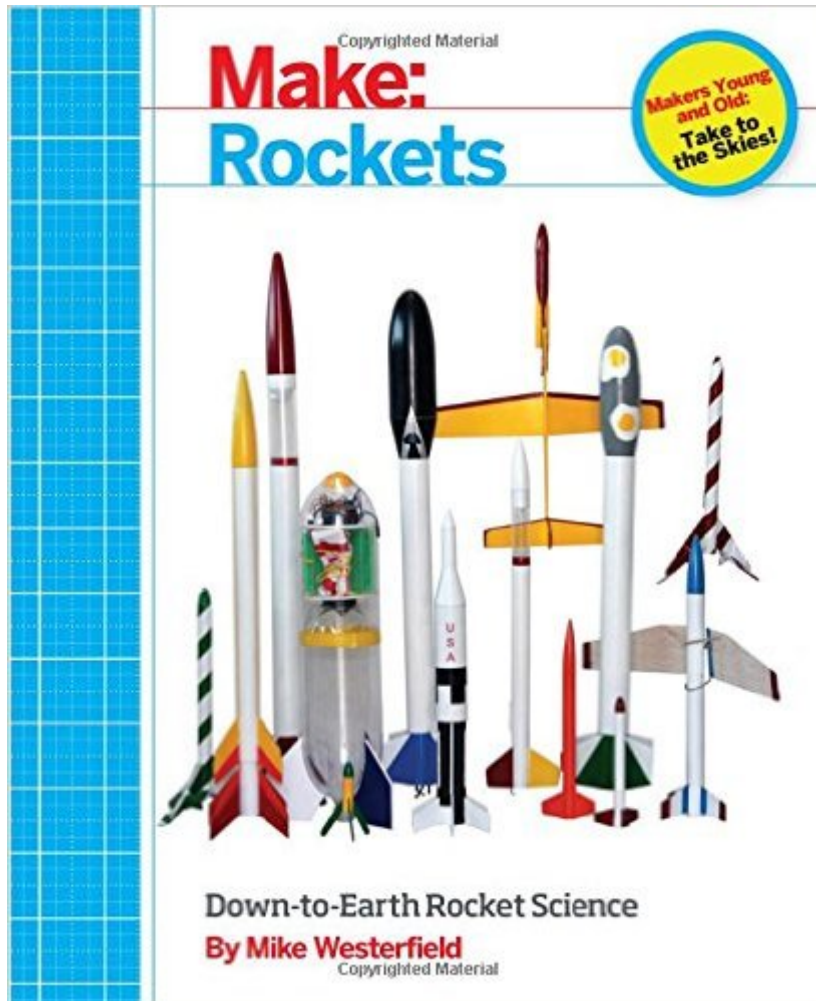


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# Make: Rockets: Down-to-Earth Rocket Science



## Synopsis

Make: Rockets, Down to Earth Rocket Science, 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 from the ground up you how to build all sorts of rockets and associated equipment with clear, step-by-step directions. It's easy to skip the more detailed material, but when you are ready, Make: Rockets will help you rise to new heights with detailed coverage of the math and science behind building, flying and tracking rockets. You will learn:

- \* How to safely build and fly solid propellant, water and air powered rockets.
- \* All the techniques needed to build model rockets, launchers and trackers.
- \* How to recover rockets by parachute, streamer, glider, helicopter recovery and more.
- \* How to fly payloads like cameras, altimeters and the ever popular egg lofter!
- \* How to pick the right motor and parachute for any rocket or payload.
- \* Aerodynamic principles for designing stable, low drag rockets that slip through the air--including one rocket that can hit 500 mph!
- \* How to use free rocket simulators to figure out about how high a rocket will go before you fly it.
- \* How to track the rocket and figure out how high and fast it really went.

If you are a hobbyist just getting started with rocketry, a teacher or parent looking for ways to get kids interested in math and science, or an advanced rocketeer who wants a deep understanding of the science and math behind rocket flight, this book is for you.

## Book Information

Age Range: 12 and up

Series: Make

Paperback: 520 pages

Publisher: Maker Media, Inc; 1 edition (September 22, 2014)

Language: English

ISBN-10: 1457182920

ISBN-13: 978-1457182921

Product Dimensions: 7.9 x 0.9 x 9.8 inches

Shipping Weight: 2.5 pounds (View shipping rates and policies)

Average Customer Review: 4.8 out of 5 stars See all reviews (19 customer reviews)

Best Sellers Rank: #71,378 in Books (See Top 100 in Books) #2 in Books > Teens > Education & Reference > Science & Technology > Technology > Air & Space Science #3 in Books > Engineering & Transportation > Engineering > Aerospace > Aircraft Design & Construction #5 in Books > Teens > Education & Reference > Science & Technology > Technology > How Things

Work

## Customer Reviews

If you have even the slightest interest in rockets, this book will be for you. It is big and contains the gamut of information, from novice to expert, for building, launching and recovering rockets. It covers launch site setup, protocol and safety, rocket building, launch controller design and build plans and even tracking systems for when your rocket is in the air. Chapters on theory delve into the math & physics behind rocket design to ensure safe launches whether you are designing a high-flying speedster or a heavy lifter for competition or just experimenting. The book is fun to read, it is sprinkled with humor and can be read cover to cover or treated as a reference manual where you pick and choose the chapters of interest. Skip the theory chapters if math is not your thing, and move right into building and flying. The book covers air rockets, water rockets and solid-fuel rockets and the launch mechanisms for each. Many good resolution photographs accompany the text for illustration. Build projects come with plans and 'shopping lists' of required parts. The chapters are: Chapter 1 Let's Fly Some Rockets! Chapter 2 Model Rocketry Today Chapter 3 Juno: A Solid Propellant Rocket Chapter 4 Launch Pads Chapter 5 Flight Operations Chapter 6 Compressed Air Rockets Chapter 7 Rocket Stability Chapter 8 How High Did It Go? Chapter 9 Payloads Chapter 10 Selecting Parachutes and Streamers Chapter 11 Water Rockets Chapter 12 Parachute Recovery of a Water Rocket Chapter 13 Subsonic Aerodynamics Chapter 14 How High Will It Go?

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