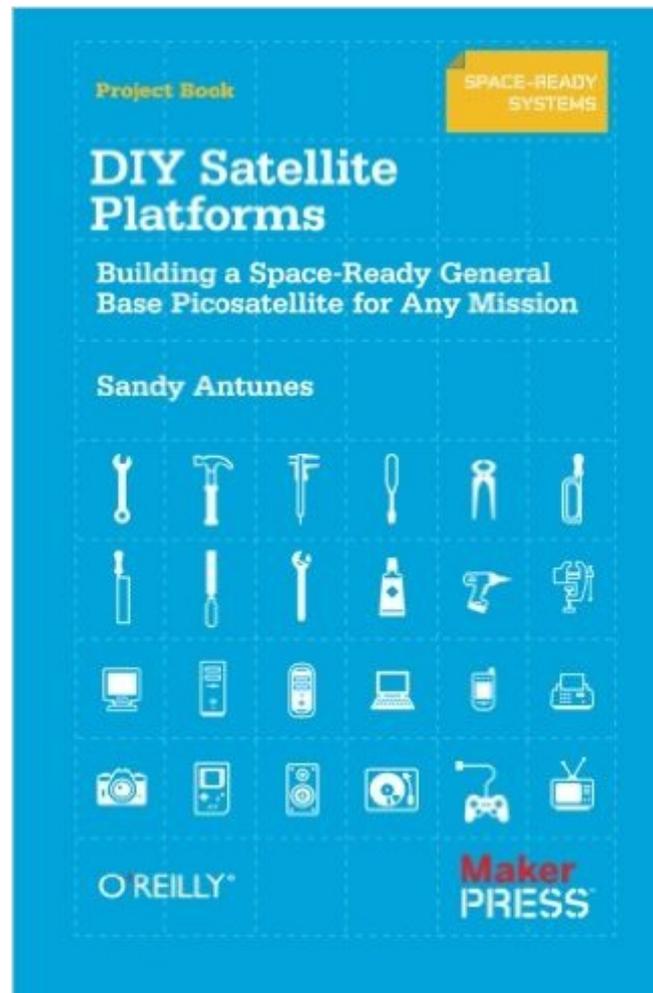# DIY Satellite Platforms: Building A Space-Ready General Base Picosatellite For Any Mission

Synopsis

Want to build your own satellite and launch it into space? Itâ ™s easier than you may think. The first in a series of four books, this do-it-yourself guide shows you the essential steps needed to design a base picosatellite platformâ ”complete with a solar-powered computer-controlled assemblyâ ”tough enough to withstand a rocket launch and survive in orbit for three months.Whether you want to conduct scientific experiments, run engineering tests, or present an orbital art project, youâ ™ll select basic components such as an antenna, radio transmitter, solar cells, battery, power bus, processor, sensors, and an extremely small picosatellite chassis. This entertaining series takes you through the entire processâ ”from planning to launch.Prototype and fabricate printed circuit boards to handle your payloadChoose a prefab satellite kit, complete with solar cells, power system, and on-board computerCalculate your power budgetâ ”how much you need vs. what the solar cells collectSelect between the Arduino or BasicX-24 onboard processors, and determine how to use the radio transmitter and sensorsLearn your launch options, including the providers and cost requiredUse milestones to keep your project schedule in motion

Book Information

Paperback: 86 pages

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Product Dimensions: 5.5 x 0.3 x 8.5 inches

Shipping Weight: 5.6 ounces (View shipping rates and policies)

Average Customer Review: 3.8 out of 5 starsÂ Â See all reviewsÂ (12 customer reviews)

Best Sellers Rank: #285,500 in Books (See Top 100 in Books)   #27 inÂ Books > Engineering & Transportation > Engineering > Aerospace > Aircraft Design & Construction   #31 inÂ Books > Science & Math > Experiments, Instruments & Measurement > Scientific Instruments   #36 inÂ Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Sensors

Customer Reviews

This book is more of a diary of Antunes' experience working on his own project, as opposed to a technical manual that would be more familiar to a professional engineer. That said, if you are an engineer and you are interested in this subject, you are likely in a position to be able to fill in the

gaps easily from the myriad pointers provided. What I found most enjoyable was the narrative of someone's spirit of adventure and creativity; Antunes has a goal, and he does what is necessary to make it happen. A lot of exploration, trial and error, good-enough-now-let's-move-on-to-the-next-problem, beg/borrow/steal other useful ideas, and all the ups and downs that are part of a real labor of love.

This is an engaging and readable book about an exciting hobby written by someone with unimpeachable space science credentials. So why a two star review?I gather from the mismatch between this book's description and its contents that the author is trying to sell these books in order to finance the construction and launch of his satellite. To put the point more clearly: the author of the book on DIY satellites has not actually launched his satellite yet.For me this was very disappointing. I would gladly have paid double the asking price for a what-worked-what-didn't analysis of even a single mission, but without that it feels like a somewhat crass attempt to keep cash flowing through the process.

This short book is radiating with the joy of creating something that can actually go into space.It's obviously written with the maker approach, don't expect the MIT course on satellite engineering for $3.57.But to feel what it takes to build a working satellite in your basement, and start to think that space exploration may really be a home project - complete with costs, suppliers and schedules - this is a good starting point.

Very good introduction to a popular project.Grass-roots satellite project that even highschool students can pursue. Space stillattracts students, and here is a hands-onproject thay can contribute to and learnfrom.

It's not a well-organized guide book which shows you every essential steps. It just likes someone who sharing his/her experience on a hobby forum. However, I do get some keywords to start my own researching on the web.

on one hand I'd like to see more, more detail, more data, more etc. but given lack of material and the newness of even doing this for real I have to give the book 5 stars. This is all great material and for anyone really building their own satellite I think should read. There are not many other books for the hobbiest space engineer out there and this is certainly one of the must reads. It will help you get

started, help you center your self in the field and allow to move forward with research and building your pico satellite.

DIY Satellite Platforms: Building a Space-Ready General Base Picosatellite for Any Mission DIY: 365 Days of DIY: A Collection of DIY, DIY Household Hacks, DIY Cleaning and Organizing, DIY Projects, and More DIY Tips to Make Your Life Easier (With Over 45 DIY Christmas Gift Ideas) 365 Days of Decluttering and Organizing Your Home: DIY Household Hacks, DIY Declutter and Organize, DIY Projects, DIY Crafts, DIY Books, DIY Cookbook, ... Home Improvement (DIY Hacks Book 1) 365 Days of DIY Hacks - Home, Parenting, Pets, Gifts, Budged: (DIY Household Hacks, DIY Declutter and Organize, DIY Projects, DIY Crafts, DIY Books, DIY Gift, Do It Yourself, Home Improvement, Kids) DIY Gifts: 50 Cute And Easy DIY Gifts In A Jar That Everybody Actually Wants: (DIY Projects, diy household hacks,diy Speed Cleaning, tiny home living, ... everyday life, diy Speed Cleaning, gifts)) Distributed Platforms: Proceedings of the IFIP/IEEE International Conference on Distributed Platforms: Client/Server and Beyond: DCE, CORBA, ODP and ... in Information and Communication Technology) DIY BUNDLE: The Best DIY Projects in One Book! (diy, diy projects, indoor gardening) Danger Ready: Prepare to Survive Any Threat and Live to Tell the Tale: (Terrorist Attacks, Mass-Shootings, Earthquakes, Civil Unrest - Be Ready to Protect Your Family Whatever the Danger) Space Mission Analysis and Design, 3rd edition (Space Technology Library, Vol. 8) Ace General Chemistry I and II (The EASY Guide to Ace General Chemistry I and II): General Chemistry Study Guide, General Chemistry Review Ace General Chemistry I: The EASY Guide to Ace General Chemistry I: (General Chemistry Study Guide, General Chemistry Review) DIY Mega-Bundle. Turn On Your Imagination With These 20 Amazing Books!: (DIY Crafts, DIY Books) (How-To Books) Cheap and Functional DIY Box Set (6 in 1): Creative, Budget-Friendly Quick and Easy DIY Prepper Projects, Household Hacks, Decorating Ideas and Outdoor Designs (DIY Projects & Household Hacks) Plumbing: DIY for Beginners - Plumbing Repair and Installation for Beginners - Plumbing for Dummies (DIY Projects - DIY Household Hacks - Plumbing tips - Plumbing Parts Book 1) Innovations in Satellite Communication and Satellite Technology Satellite Communications Systems Engineering: Atmospheric Effects, Satellite Link Design and System Performance A Mission Divided: Race, Culture and Colonialism in Fiji's Methodist Mission (State, Society and Governance in Melanesia) Windows 10: From Beginner To Expert: A Complete User Guide to Microsoft's Intelligent New Operating System (Now With Bonus Chapter) (Windows - General ... General Guide, Windows - General Mastery,) Clinical Anesthesia Procedures of the Massachusetts General Hospital: Department of Anesthesia, Critical Care and Pain Medicine,

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