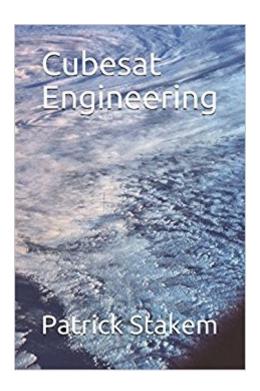


The book was found

Cubesat Engineering





Synopsis

This book is an introduction to Cubesats, those popular and relatively inexpensive modular spacecraft that are upending the aerospace world. They have been built and deployed by colleges and Universities around the world, as well as high schools and elementary schools, even individuals. This is because Cubesats are modular, standard, and relatively low cost. The expensive part is the launch, but that is addressed by launch fixtures compatible with essentially ever launch on the planet. Although you may not have much of a choice in the orbit. At Capitol Technology University, where the author teaches, there is an ongoing Cubesat Project that will receive a free launch from NASA in late 2017, based on an open competition. Student Cubesat Projects are usually open source, may be world-wide in scope, and collaborative. At the same time, professionals in aerospace have not failed to consider the Cubesat architecture as an alternative for small-sat missions. This can reduce costs by one or two orders of magnitude. There are Cubesats on the International Space Station, and these can be returned to Earth on a resupply mission. There is a large Açâ ¬A"cottage industry' developed around the Cubesat architecture, addressing \tilde{A} ¢â ¬Å"professional \tilde{A} ¢â ¬Â• projects with space-rated hardware. NASA itself has developed Cubesat hardware (Pi-Sat) and Software (cfs). Cubesats are modular, built to a standard, and mostly open-source. The downside is, approximately 50% of Cubesat missions fail. We hope to point out some approaches to improve this. If you define and implement your own Cubesat mission, or work as a team member on a larger project, this book presents and points to information that will be valuable. Even if you never get your own Cubesat to orbit, you can be a valuable addition to a Cubesat or larger aerospace project. Shortly, two NASA Cubesats will be heading to Mars. The unique Cubesat architecture introduces a new Paradigm for exploring the many elements of our Solar System. Best of luck on your mission.

Book Information

Series: Cubesat (Book 1)

Paperback: 173 pages

Publisher: Independently published (March 4, 2017)

Language: English

ISBN-10: 1520754019

ISBN-13: 978-1520754017

Product Dimensions: 6 x 0.4 x 9 inches

Shipping Weight: 11.4 ounces (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #591,980 in Books (See Top 100 in Books) #225 inà Books > Science & Math > Experiments, Instruments & Measurement > Experiments & Projects #490 inà Books > Reference > Writing, Research & Publishing Guides > Research #4514 inà Â Books > Textbooks > Reference

Download to continue reading...

Cubesat Engineering Gravity Sanitary Sewer Design and Construction (ASCE Manuals and Reports on Engineering Practice No. 60) (Asce Manuals and Reports on Engineering ... Manual and Reports on Engineering Practice) Earthquake Engineering: From Engineering Seismology to Performance-Based Engineering G.Dieter's Li.Schmidt's Engineering 4th (Fourth) edition(Engineering Design (Engineering Series) [Hardcover])(2008) Introduction to Coastal Engineering and Management (Advanced Series on Ocean Engineering) (Advanced Series on Ocean Engineering (Paperback)) Tissue Engineering II: Basics of Tissue Engineering and Tissue Applications (Advances in Biochemical Engineering/Biotechnology) Tissue Engineering I: Scaffold Systems for Tissue Engineering (Advances in Biochemical Engineering/Biotechnology) (v. 1) Engineering Fundamentals: An Introduction to Engineering (Activate Learning with these NEW titles from Engineering!) Biomedical Engineering Principles Of The Bionic Man (Series on Bioengineering & Biomedical Engineering) (Bioengineering & Biomedical Engineering (Paperback)) Reeds Vol 12 Motor Engineering Knowledge for Marine Engineers (Reeds Marine Engineering and Technology Series) Introduction to Engineering Design Book 9, Second Edition Engineering Skills and Hovercraft Missions Building the Golden Gate Bridge: An Interactive Engineering Adventure (You Choose: Engineering Marvels) Financial Engineering with Copulas Explained (Financial Engineering Explained) The "Complete Guide" to CONSULTING ENGINEERING: How to Start & Manage an Outstanding CONSULTING ENGINEERING PRACTICE Resilience Engineering in Practice: A Guidebook (Ashgate Studies in Resilience Engineering) Building the Great Wall of China: An Interactive Engineering Adventure (You Choose: Engineering Marvels) Engineering in Our Everyday Lives (Engineering Close-Up) Building the Empire State Building: An Interactive Engineering Adventure (You Choose: Engineering Marvels) Fundamentals of Polymer Engineering, Revised and Expanded (Plastics Engineering) Practice Problems for the Civil Engineering PE Exam: A Companion to the Civil Engineering Reference Manual, 15th Ed

Contact Us

DMCA

Privacy

FAQ & Help