



On the Design of a Small Solar Powered Unmanned Aerial Vehicle

By Miracle, Brian

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | A Continuous Design Approach | Unmanned aerial vehicles are seeing increasing use in a variety of applications including warfare, imaging, communication, search and rescue, meteorology, agriculture, and more. For most applications, flight endurance on the order of days, weeks, or even years is desirable. Photovoltaic cells represent an emerging and viable method of powering unmanned aerial vehicles on such long endurance flights. This study investigates the design optimization of a small solar powered unmanned aerial vehicle. The aircraft is intended to weigh less than twenty pounds and to fly for 24 hours at low altitude over Sacramento, California during the summer months of May through September. Photovoltaic technology and the characterization of thin-film photovoltaic cells are reviewed. The majority of the document is a description of the methods used to implement a continuous design approach in which the battery pack power, photovoltaic efficiency, and aircraft weight were determined for a given aspect ratio and wing loading. | Format: Paperback | Language/Sprache: english | 68 pp.



READ ONLINE
[7.2 MB]

Reviews

An exceptional pdf and also the typeface applied was intriguing to read through. It is definitely simplified but excitement in the 50 % in the ebook. I discovered this ebook from my dad and i recommended this pdf to find out.

-- Jarod Ward

Complete information for publication enthusiasts. It is really basic but shocks inside the fifty percent of your book. I am just delighted to let you know that this is basically the finest book i have read through in my individual lifestyle and might be he best pdf for actually.

-- Elena Runolfsdottir Sr.

See Also



[Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. \(1624-1625\)](#)

Proquest, Eebo Editions, United States, 2010. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.EARLY HISTORY OF RELIGION. Imagine holding history in your hands. Now you can. Digitally preserved and previously accessible...



[Two Treatises: The Pearle of the Gospell, and the Pilgrims Profession to Which Is Added a Glasse for Gentlewomen to Dresse Themselves By. by Thomas Taylor Preacher of Gods Word to the Towne of Reding. \(1625\)](#)

Proquest, Eebo Editions, United States, 2010. Paperback. Book Condition: New. 246 x 189 mm. Language: English Brand New Book ***** Print on Demand *****.EARLY HISTORY OF RELIGION. Imagine holding history in your hands. Now you can. Digitally preserved and previously accessible only...



[Star Flights Bedtime Spaceship: Journey Through Space While Drifting Off to Sleep](#)

CreateSpace Independent Publishing Platform, 2013. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: "Star Flights Bedtime Spaceship" is a charming and fun story with the purpose to help children unwind and go to sleep. The underlying...



[Third grade - students fun reading and writing training](#)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Pages Number: 171 Publisher: Shanghai Far East Publishing House Pub. Date :2010-8-1. First. the layout of the book is organized sound...



[The Savvy Cyber Kids at Home: The Defeat of the Cyber Bully](#)

Createspace, United States, 2014. Paperback. Book Condition: New. Taylor Southerland (illustrator). 254 x 203 mm. Language: English . Brand New Book ***** Print on Demand *****.The adventures of CyberThunder (Tony) and CyberPrincess (Emma) continue in The Savvy Cyber Kids at Home: The...



[Programming in D: Tutorial and Reference](#)

Ali Cehreli, 2015. Paperback. Book Condition: New. 254 x 178 mm. Language: English . Brand New Book ***** Print on Demand *****.The main aim of this book is to teach D to readers who are new to computer programming. Although having experience...