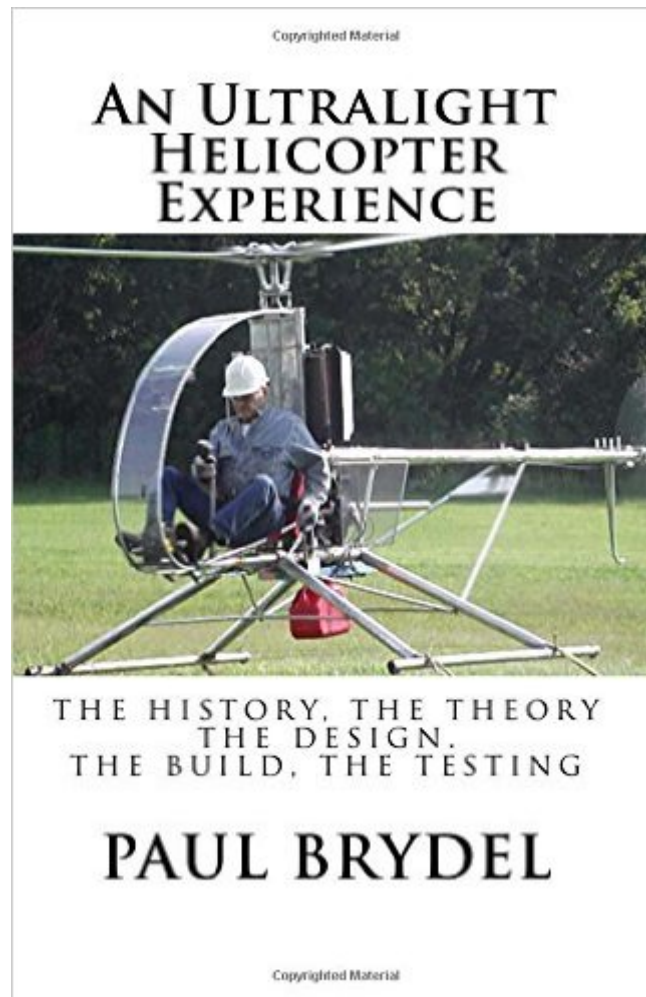


The book was found

An Ultralight Helicopter Experience: The History, The Theory, The Design, The Build, The Testing



Synopsis

This book was compiled from the knowledge acquired during the engineering, design, part fabrication, and assembly of my full-function ultralight helicopter. Prior to tackling this task my only encounter with a helicopter was being airlifted out of the Atlantic Ocean during Air Force Survival Training. Every aspect of the project is included. The information is presented assuming the reader has limited helicopter background. It does however offer in depth calculations for those interested in the analytical and theoretical areas of this project. All calculations were done using Mathcad an engineering software program. Every stage involved in building the helicopter is covered in detail including - the initial investigation of helicopter history to establish starting parameters, a rigorous discussion on the theory, and a brief summary of how helicopters fly. From there it proceeds to the formal engineering process for the design and build of a functional helicopter. The book continues from that point to list the equipment purchased and a brief explanation of operational techniques to fabricate the designed parts. The material types used are also covered in depth. In the final chapters the flight testing experience is elaborated on. For the reader who would like to delve further into areas beyond the scope of this book, reference books are listed. These include such topics as advanced rotor aerodynamics, rotor planform theory, or training instruction on the various pieces of equipment required to fabricate the parts. This is not necessarily an easy read but there is much to learn and many interesting facets to explore whether just for an understanding or as an actual project to pursue further.

Book Information

Paperback: 452 pages

Publisher: CreateSpace Independent Publishing Platform (October 3, 2015)

Language: English

ISBN-10: 151162695X

ISBN-13: 978-1511626958

Product Dimensions: 5.5 x 1 x 8.5 inches

Shipping Weight: 1.5 pounds (View shipping rates and policies)

Average Customer Review: 4.5 out of 5 stars Â Â See all reviewsÂ (2 customer reviews)

Best Sellers Rank: #1,039,603 in Books (See Top 100 in Books) #143 inÂ Books > Engineering & Transportation > Engineering > Aerospace > Aircraft Design & Construction #1268 inÂ Books > Science & Math > Astronomy & Space Science > Aeronautics & Astronautics

Customer Reviews

A nice little book on helo design and constructionIf you are not too scared of the Greek alphabet you will enjoy it.

Very informative

[Download to continue reading...](#)

An Ultralight Helicopter Experience: The History, The Theory, The Design, The Build, The Testing
Helicopter Maneuvers Manual: A step-by-step illustrated guide to performing all helicopter flight
operations Daniels and Worthingham's Muscle Testing: Techniques of Manual Examination and
Performance Testing, 9e (Daniels & Worthington's Muscle Testing (Hislop)) Tenkara: Radically
Simple, Ultralight Fly Fishing The Basics of Hacking and Penetration Testing, Second Edition:
Ethical Hacking and Penetration Testing Made Easy Penetration Testing: Communication Media
Testing (EC-Council Press) ACSM's Resource Manual for Guidelines for Exercise Testing and
Prescription (Ascms Resource Manual for Guidlies for Exercise Testing and Prescription) Ruppel's
Manual of Pulmonary Function Testing, 10e (Manual of Pulmonary Function Testing (Ruppel))
Manual of Pulmonary Function Testing, 9e (Manual of Pulmonary Function Testing (Ruppel))
Testing Women, Testing the Fetus: The Social Impact of Amniocentesis in America (The
Anthropology of Everyday Life) Helicopter Performance, Stability, and Control Danger Close: My
Epic Journey as a Combat Helicopter Pilot in Iraq and Afghanistan Helicopters! Learn About
Helicopters While Learning To Read - Helicopter Photos And Facts Make It Easy! (Over 45+ Photos
of Helicopters) My First Drone with Camera: RC Helicopter Types, Camera & GPS, Buying,
Controls, Radio, Rules, Instructions Pucker Factor 10: Memoir of A U.S. Army Helicopter Pilot in
Vietnam Electrical Insulation for Rotating Machines: Design, Evaluation, Aging, Testing, and Repair
(IEEE Press Series on Power Engineering) Audiophile Vacuum Tube Amplifiers - Design,
Construction, Testing, Repairing & Upgrading, Volume 1 Service Fanatics: How to Build Superior
Patient Experience the Cleveland Clinic Way Social Media Marketing: 12 Successful Strategies to
Master Social Media, Grow Your Followers & Build Your Brand Online: Regardless of Money, Time,
or Experience Make Easy Money Online: Follow in my footsteps and replace your 9-5 job in 30 days
with no prior experience (How to make money online, Work less, Make money from home, Build a
business)

[Dmca](#)