

Analysis of the Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) in Small Unit Urban Operations

Roman K. Cason

Download now

Click here if your download doesn"t start automatically

Analysis of the Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) in Small Unit Urban Operations

Roman K. Cason

Analysis of the Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) in Small Unit **Urban Operations** Roman K. Cason

This is a NAVAL POSTGRADUATE SCHOOL MONTEREY CA report procured by the Pentagon and made available for public release. It has been reproduced in the best form available to the Pentagon. It is not spiral-bound, but rather assembled with Velobinding in a soft, white linen cover. The Storming Media report number is A792724. The abstract provided by the Pentagon follows: The Marine Corps has recently embarked on the development of a Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) to replace the aging Pioneer Unmanned Aerial Vehicle (UAV) system. This thesis examines the critical elements this platform must possess to effectively support small units operating in urban environments. The author addresses this issue by creating and exploring an agent-based simulation of a platoon conducting an urban patrol in a setting similar to those currently being encountered in Iraq. The platoon utilizes the VTUAV as an intelligence-gathering asset. The author designed an experiment to generate data from the simulation scenario, and then used multiple regression analysis and regression trees to relate the UAV capabilities to the patrol's operational effectiveness. The results suggest that the effectiveness of a VTUAV is greatly influenced by noise in the urban warfare environment. He uses a loss function, along with the regression models, to identify UAV configurations that improve operational effectiveness, yet are robust to uncertainties about civilian and insurgent behavior. The VTUAV must have high communication capability, as well as accurate sensing, to perform well across a range of environmental conditions. (6 tables, 27 figures, 23 refs.)

Download Analysis of the Vertical Takeoff and Landing Unman ...pdf

Read Online Analysis of the Vertical Takeoff and Landing Unm ...pdf

Download and Read Free Online Analysis of the Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) in Small Unit Urban Operations Roman K. Cason

From reader reviews:

Lorraine Briggs:

Within other case, little men and women like to read book Analysis of the Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) in Small Unit Urban Operations. You can choose the best book if you appreciate reading a book. As long as we know about how is important a book Analysis of the Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) in Small Unit Urban Operations. You can add knowledge and of course you can around the world by just a book. Absolutely right, because from book you can realize everything! From your country until eventually foreign or abroad you may be known. About simple factor until wonderful thing you could know that. In this era, we could open a book or searching by internet device. It is called e-book. You may use it when you feel bored to go to the library. Let's read.

Tom Johnson:

Book is to be different for every grade. Book for children till adult are different content. We all know that that book is very important for all of us. The book Analysis of the Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) in Small Unit Urban Operations ended up being making you to know about other understanding and of course you can take more information. It is quite advantages for you. The publication Analysis of the Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) in Small Unit Urban Operations is not only giving you a lot more new information but also to be your friend when you feel bored. You can spend your current spend time to read your e-book. Try to make relationship together with the book Analysis of the Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) in Small Unit Urban Operations. You never feel lose out for everything should you read some books.

Harold Dalton:

The e-book with title Analysis of the Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) in Small Unit Urban Operations contains a lot of information that you can find out it. You can get a lot of gain after read this book. That book exist new understanding the information that exist in this e-book represented the condition of the world today. That is important to yo7u to learn how the improvement of the world. This book will bring you throughout new era of the the positive effect. You can read the e-book on the smart phone, so you can read the item anywhere you want.

Robert Ford:

A lot of guide has printed but it differs. You can get it by net on social media. You can choose the most effective book for you, science, witty, novel, or whatever simply by searching from it. It is referred to as of book Analysis of the Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) in Small Unit Urban Operations. You can contribute your knowledge by it. Without making the printed book, it could add your knowledge and make you actually happier to read. It is most important that, you must aware about publication. It can bring you from one destination for a other place.

Download and Read Online Analysis of the Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) in Small Unit Urban Operations Roman K. Cason #73BV1HEM6OA

Read Analysis of the Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) in Small Unit Urban Operations by Roman K. Cason for online ebook

Analysis of the Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) in Small Unit Urban Operations by Roman K. Cason Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Analysis of the Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) in Small Unit Urban Operations by Roman K. Cason books to read online.

Online Analysis of the Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) in Small Unit Urban Operations by Roman K. Cason ebook PDF download

Analysis of the Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) in Small Unit Urban Operations by Roman K. Cason Doc

Analysis of the Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) in Small Unit Urban Operations by Roman K. Cason Mobipocket

Analysis of the Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) in Small Unit Urban Operations by Roman K. Cason EPub