



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

Roman K. Cason

[Download now](#)

[Read Online](#) 

[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 Unmanned A ...pdf](#)

 [Read Online Analysis of the Vertical Takeoff and Landing Unmanned ...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

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:

Kate Sutton:

Have you spare time for a day? What do you do when you have considerably more or little spare time? Sure, you can choose the suitable activity with regard to spend your time. Any person spent their particular spare time to take a go walking, shopping, or went to the actual Mall. How about open or perhaps read a book called Analysis of the Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) in Small Unit Urban Operations? Maybe it is to get best activity for you. You recognize beside you can spend your time using your favorite's book, you can wiser than before. Do you agree with their opinion or you have different opinion?

Bert Ferguson:

The book Analysis of the Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) in Small Unit Urban Operations can give more knowledge and information about everything you want. So just why must we leave the great thing like a book Analysis of the Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) in Small Unit Urban Operations? A few of you have a different opinion about guide. But one aim which book can give many facts for us. It is absolutely appropriate. Right now, try to closer with your book. Knowledge or details that you take for that, you could give for each other; you are able to share all of these. Book Analysis of the Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) in Small Unit Urban Operations has simple shape but you know: it has great and massive function for you. You can seem the enormous world by wide open and read a guide. So it is very wonderful.

Judy Bowen:

The particular book Analysis of the Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) in Small Unit Urban Operations has a lot associated with on it. So when you make sure to read this book you can get a lot of benefit. The book was published by the very famous author. Tom makes some research prior to write this book. This particular book very easy to read you will get the point easily after reading this book.

Alex Miller:

As a college student exactly feel bored to be able to reading. If their teacher asked them to go to the library or make summary for some e-book, they are complained. Just little students that has reading's spirit or real their hobby. They just do what the teacher want, like asked to go to the library. They go to at this time there but nothing reading very seriously. Any students feel that examining is not important, boring in addition to can't see colorful pics on there. Yeah, it is to be complicated. Book is very important for you personally. As we know that on this period, many ways to get whatever we want. Likewise word says, many ways to reach Chinese's country. Therefore , this Analysis of the Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) in Small Unit Urban Operations can make you experience more interested to read.

Download and Read Online Analysis of the Vertical Takeoff and Landing Unmanned Aerial Vehicle (VTUAV) in Small Unit Urban Operations Roman K. Cason #JTOYD9GLQXK

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

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

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