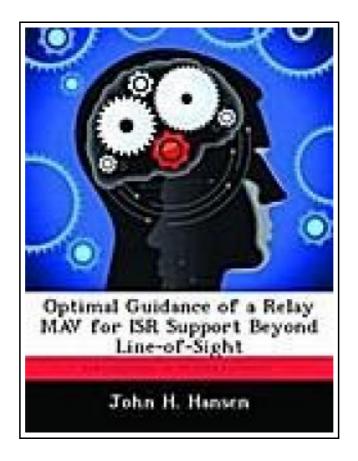
Optimal Guidance of a Relay MAV for ISR Support Beyond Line-of-Sight



Filesize: 8.09 MB

Reviews

It is straightforward in go through easier to recognize. I actually have study and that i am sure that i will going to study yet again again down the road. Once you begin to read the book, it is extremely difficult to leave it before concluding.

(Jaclyn Johns DDS)

OPTIMAL GUIDANCE OF A RELAY MAV FOR ISR SUPPORT BEYOND LINE-OF-SIGHT



To get Optimal Guidance of a Relay MAV for ISR Support Beyond Line-of-Sight PDF, remember to access the web link under and download the document or gain access to other information which are in conjuction with OPTIMAL GUIDANCE OF A RELAY MAV FOR ISR SUPPORT BEYOND LINE-OF-SIGHT ebook.

Biblioscholar Okt 2012, 2012. Taschenbuch. Book Condition: Neu. 246x189x4 mm. This item is printed on demand - Print on Demand Neuware - This thesis developed guidance laws to optimally position a relay Micro-UAV (MAV) to provide an operator with real-time Intelligence, Surveillance, and Reconnaissance (ISR) by relaying communication and video signals when there is no line-of-sight between the operator at the base and the rover MAV performing the ISR mission. The ISR system consists of two MAVs, the Relay and the Rover, and a Base. The Relay strives to position itself to minimize the radio frequency (RF) power required for maintaining communications between the Rover and the Base, while the Rover performs the ISR mission, which may maximize the required RF power. The optimal control of the Relay MAV then entails the solution of a differential game. Applying Pontryagin's Maximum Principle yields a nonlinear Two-Point Boundary Value Problem (TPBVP). Suboptimal solutions are also analyzed to aid in solving the TPBVP which yields the solution of the differential game. One suboptimal approach is based upon the geometry of the ISR system. Another suboptimal approach envisions a stationary Rover and solves for the optimal path for the Relay. Both suboptimal approaches showed that the optimal path for the Relay is to head straight toward the midpoint between the Rover and the Base. 64 pp. Englisch.

Read Optimal Guidance of a Relay MAV for ISR Support Beyond Line-of-Sight Online
Download PDF Optimal Guidance of a Relay MAV for ISR Support Beyond Line-of-Sight

Download ePUB Optimal Guidance of a Relay MAV for ISR Support Beyond Line-of-Sight

Related eBooks



[PDF] My Big Book of Bible Heroes for Kids: Stories of 50 Weird, Wild, Wonderful People from God's Word

Access the hyperlink beneath to download "My Big Book of Bible Heroes for Kids: Stories of 50 Weird, Wild, Wonderful People from God's Word" PDF file.

Download Document »



[PDF] Edge] the collection stacks of children's literature: Chunhyang Qiuyun 1.2 --- Children's Literature 2004(Chinese Edition)

Access the hyperlink beneath to download "Edge] the collection stacks of children's literature: Chunhyang Qiuyun 1.2 --- Children's Literature 2004(Chinese Edition)" PDF file.

Download Document »



[PDF] Very Short Stories for Children: A Child's Book of Stories for Kids

Access the hyperlink beneath to download "Very Short Stories for Children: A Child's Book of Stories for Kids" PDF file.

Download Document »



[PDF] A Dog of Flanders: Unabridged; In Easy-to-Read Type (Dover Children's Thrift Classics)

Access the hyperlink beneath to download "A Dog of Flanders: Unabridged; In Easy-to-Read Type (Dover Children's Thrift Classics)" PDF file.

Download Document »



[PDF] The Victim's Fortune: Inside the Epic Battle Over the Debts of the Holocaust

Access the hyperlink beneath to download "The Victim's Fortune: Inside the Epic Battle Over the Debts of the Holocaust" PDF file.

Download Document »



[PDF] Hitler's Exiles: Personal Stories of the Flight from Nazi Germany to America

Access the hyperlink beneath to download "Hitler's Exiles: Personal Stories of the Flight from Nazi Germany to America" PDF file.

Download Document »



[PDF] Help! I'm a Baby Boomer (Battling for Christian Values Inside America's Largest Generation

Click the web link below to download "Help! I'm a Baby Boomer (Battling for Christian Values Inside America's Largest Generation" document.

Read ePub »



[PDF] Billy's Booger: A Memoir (sorta)

Click the web link below to download "Billy's Booger: A Memoir (sorta)" document.

Read ePub »



[PDF] A Lover's Almanac: A Novel

Click the web link below to download "A Lover's Almanac: A Novel" document.

Read ePub »



[PDF] You Shouldn't Have to Say Goodbye: It's Hard Losing the Person You Love the Most

Click the web link below to download "You Shouldn't Have to Say Goodbye: It's Hard Losing the Person You Love the Most" document.

Read ePub »



[PDF] Leave It to Me (Ballantine Reader's Circle)

Click the web link below to download "Leave It to Me (Ballantine Reader's Circle)" document.

Read ePub »



[PDF] Pete's Peculiar Pet Shop: The Very Smelly Dragon (Gold A)

Click the web link below to download "Pete's Peculiar Pet Shop: The Very Smelly Dragon (Gold A)" document.

Read ePub »