

CONCEPTUAL AND PRELIMINARY DESIGN FOR A HALE UAV PROCESS TOOLS AND DESIGN METHODOLOGIES APPLIED TO HIGH ALTITUDE LONG ENDURANCE UNMANNED AERIAL VEHICLE

Sep 22, 2020



[Conceptual And Preliminary Design For A Hale Uav Process Tools And Design Methodologies Applied To High Altitude Long Endurance Unmanned Aerial Vehicle](#)

Conceptual and Preliminary Design for a HALE UAV: Process, Tools, and Design Methodologies applied to High Altitude Long Endurance Unmanned Aerial Vehicle [Sammartano, Domenico, Serghides, Varnavas C., Chiesa, Sergio] on Amazon.com. *FREE* shipping on qualifying offers. Conceptual and Preliminary Design for a HALE UAV: Process, Tools, and Design Methodologies applied to High Altitude Long ...

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In this paper, a description of newly developed conceptual and preliminary design approaches is introduced, to design a high altitude long endurance solar powered unmanned aerial vehicle. The conceptual design approach is based on representing the

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Conceptual and Preliminary Design of a Long Endurance Electric UAV Luis Miguel Almodovar Parada luisparada2@hotmail.com Instituto Superior Tecnico, Universidade de Lisboa, Portugal November 2016 Abstract The present thesis documents the conceptual and preliminary design of a solar long endurance Unmanned Aerial Vehicle (UAV). Having in mind surveillance goals, the mission profile requires an ...

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A high-altitude long-endurance (HALE) unmanned aerial vehicle (UAV), Phantom Eye is designed and manufactured by Boeing Phantom Works, US. The UAV will perform intelligence, surveillance and reconnaissance (ISR) missions in Afghanistan for defence forces of the US. It is the first fixed-wing UAV to utilise a liquid hydrogen fuel system.

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In this paper, a description of newly developed conceptual and preliminary design approaches is introduced, to design a high altitude long endurance solar powered unmanned aerial vehicle. The conceptual design approach is based on representing the mass and the power requirement of each aircraft element as a fraction, in order to produce the total mass equation. The fractions have been gathered ...

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The design process starts with the Conceptual phase, with the definition of the statistical analysis and the Matching Diagram. The results are optimized in the Preliminary phase by iterative procedures. Tools and methods used to size the aircraft design parameters are also presented. The research for this project was conducted at Imperial College of London and submitted to Politecnico of Turin.

[UAV Society: UAV CONCEPTUAL and PRELIMINARY DESIGN](#)

Montagnier, O. and L. Bovet. Optimisation of a solar-powered high altitude long endurance UAV. in Proceedings of the 27th International Congress of the Aeronautical Sciences, Nice, France. 2010. Cestino, E., Design of solar high altitude long endurance aircraft for multi payload & operations. Aerospace Science & Technology, 2006. 10(6): p. 541-550.

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Several researches are being carried out at the Politecnico di Torino with the aim of designing a high altitude very-long endurance/unmanned air vehicle (HAVE/UAV). Being able to fly in the stratosphere (15-20 km) and with an endurance of about 4 months offers an advantage and possibility that is presently not available with conventional aircraft or satellites. A computer program has been ...

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An unmanned aerial vehicle (UAV for short; also known as a drone) is any aircraft that does not have a human pilot onboard. UAVs have their origins as early as 1915 when Nikolai Tesla wrote a dissertation in which he described an armed, pilotless-aircraft designed to defend the United States. ... [1] UAVs come in a variety of sizes, designs and purposes. Initially, UAVs were merely remotely ...

[Design and Performance Evaluation of Propeller for Solar ...](#)

Romeo G, Frulla G, Cestino E (2007) Design of a high-altitude long-endurance solar-powered unmanned air vehicle for multi-payload and operations. Proc IME G J Aero Eng 221(2):199-216. doi: 10.1243/09544100JAERO119 [Links] Roskam J (1997) Airplane aerodynamics and performance. Lawrence: DAR Corporation. [Links]

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stages of conceptual design, development or production. These unmanned systems may use either variations of the design criteria for manned air vehicles to fulfil similar requirements where applicable and new design criteria where specific unique weapons system capabilities are demanded, along with certification guidelines being formulated by authorities to operate the vehicle in various ...

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Conceptual and Preliminary Design for a HALE UAV: Process, Tools, and Design Methodologies applied to High Altitude Long Endurance Unmanned Aerial Vehicle [Sammartano, Domenico, Serghides, Varnavas C., Chiesa, Sergio] on Amazon.com. *FREE* shipping on qualifying offers.

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The purpose of this paper is to present the development of an optimal design framework for high altitude long endurance solar unmanned aerial vehicle. The proposed solar aircraft design framework provides a simple method to design solar aircraft for users of all levels of experience. This design framework consists of algorithms and user interfaces for the design of experiments, optimization ...

[Design and Operation of UAV - LinkedIn SlideShare](#)

Design methodology for rigid V Fixed wing unmanned aerial vehicles 166 Copyright 2018 amal et al. Citation: Kamal AM, Ramirez-Serrano A. Design methodology for hybrid (VTOL + Fixed Wing) unmanned aerial vehicles. Aeron Aero Open Access J. 2018;2(3):165-176. DOI: 10.15406/aaaj.2018.02.00047 common and successful concepts are tiltrotors, tilt-wings ...

[Design, Development and Fabrication of Solar Powered HALE ...](#)

Kontogiannis' research is focused on conceptual and preliminary aircraft design for light, electric-powered UAV [4]. Conceptual design involves aircraft data, operating conditions, and weight estimation process. Preliminary design determines the perfect combination between wing lift coefficient, planform area, and aerodynamic surface

[The 10 longest range unmanned aerial vehicles \(UAVs\)](#)

A Process for the Design and Manufacture of Propellers for Small Unmanned Aerial Vehicles by Brian David Rutkay A thesis submitted to the Faculty of Graduate and Postdoctoral Affairs in partial fulfillment of the requirements for the degree of Master of Applied Science in Aerospace Engineering Carleton University Ottawa, Ontario

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