



AUTO COMPUTER-AIDED DESIGN AIRCRAFT OF THE FUTURE

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ABSTRACT

A concept for innovative aircraft design is developed to evaluate new performance, aerodynamics, and overall feasibility. This could be achieved through innovative ideas in which non-existing vehicles would be constructed. Innovation has a significant contribution to the future of aviation; it can ensure the successful production of advanced aircraft design. Therefore, this study introduces a computer-aided vehicle design to improve the concept of an innovative Manta Ray aircraft. This experimental research aims to produce a new aircraft model and concept that can be applied in the future of the aviation industry. A customized aircraft design is created using software that significantly enhances the aircraft components' editing workflow, convenience, and manta ray preferences. Furthermore, the results revealed that accurate material selection and distribution are required for the success of the revolutionary aircraft idea. The Manta Ray design, including the exterior and interior, was implicated in the aircraft which plays a significant role in its functionality and overall performance. This design was evaluated in a simulation process to create an animation to determine whether the design parts were functional and suitably placed.

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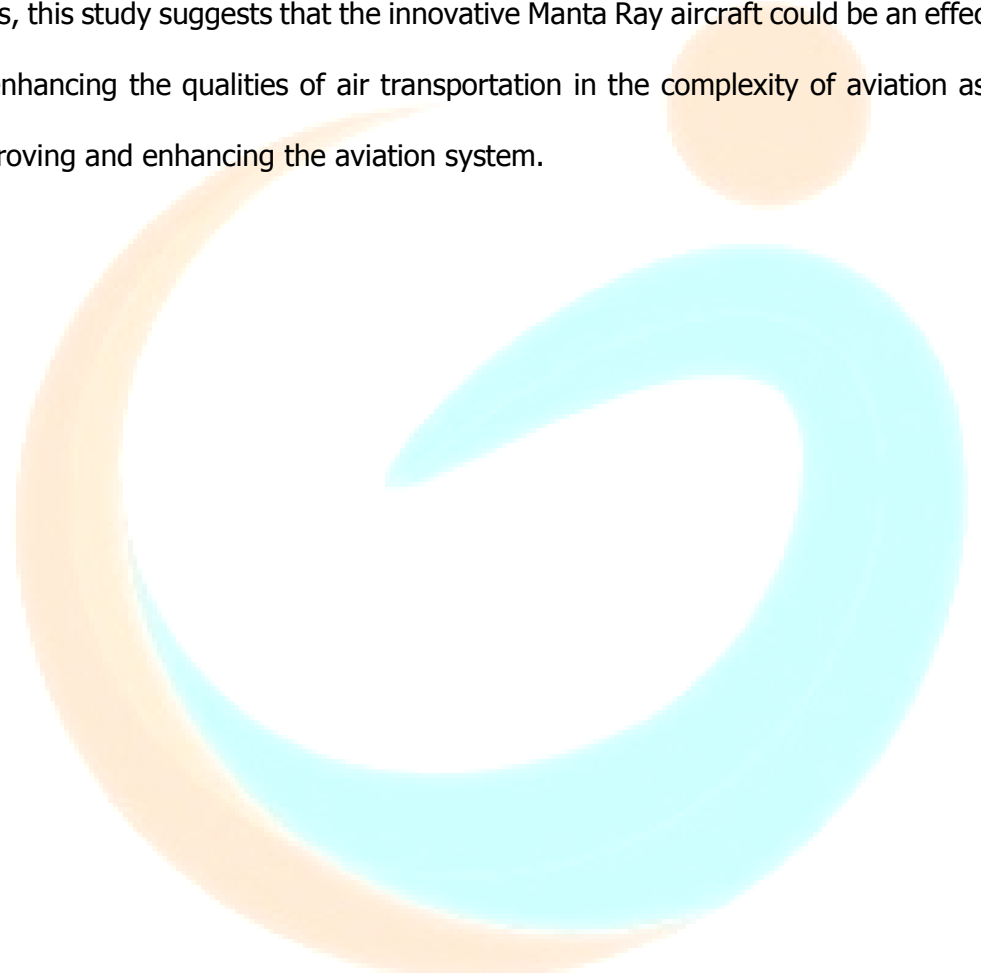
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Similarly, the aircraft's efficacy, dependability, and efficiency can be examined. As a result of this experimental research, an aircraft was developed that might be used in the future of the aviation industry. These findings show that developing creative aircraft designs can benefit the future by contributing to the construction of any type of aircraft for commercial or private use in aviation. Thus, this study suggests that the innovative Manta Ray aircraft could be an effective contribution to enhancing the qualities of air transportation in the complexity of aviation as well as tool for improving and enhancing the aviation system.



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