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Aircraft Conceptual Design Synthesis by Denis Howe PhD (Cranfield), SM (MIT), FRAeS, FIMechE Professor Emeritus and formerly Head of the College of Aeronautics,

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SUBSYSTEM ARCHITECTURE SIZING AND ANALYSIS FOR AIRCRAFT CONCEPTUAL DESIGN

Approved by: Professor Dimitri N. Mavris, Advisor Daniel Guggenheim School of

## **SUBSYSTEM ARCHITECTURE SIZING AND ANALYSIS FOR AIRCRAFT**

geometry modeling early in the design process. VSP has the capability to rapidly model aircraft, thus making a geometry-centered conceptual design process possible. Its parametric-based modeling makes this software easy to learn. Examples are given of studies that have used this capability to allow this geometry-centered design process.

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support the conceptual design phase both in terms of concept generation and concept selection. Ullman [47] p 13, speaks of the design paradox, where very little is known about the

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1.0 ABSTRACT The MVO method for conceptual aircraft design consists of a The design of a combat aircraft is an extremely complex task, specific aircraft design synthesis program, which is linked to a due to the large range of design variables available. A general program for constrained non-linear optimisation.

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4 AIRCRAFT DESIGN 2.2 PHASES OF AIRCRAFT DESIGN Conceptual Design Aircraft design can be broken into three major phases, as depicted in Fig. 2.2. Conceptual design is the primary focus of this book. It is in conceptual design that the basic questions of configuration arrangement size and weight, and performance are answered.

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