

PERFORMANCE ANALYSIS OF VLJ AIRCRAFTS

Lucio Garcia Veraldo Junior*
Sao Paulo State University
Guaratingueta, SP, Brazil
E-mail: lucioveraldo@uol.com.br

Mauricio Cesar Delamaro
Sao Paulo State University
Guaratingueta, SP, Brazil
E-mail: delamaro@feg.unesp.br

Paulo Cesar De Carli
Sao Paulo State University
Guaratingueta, SP, Brazil
E-mail: decarli.gta@uol.com.br

Valerio A. P. Salomon
Sao Paulo State University
Guaratingueta, SP, Brazil
E-mail: salomon@feg.unesp.br

ABSTRACT

A new option of air transport has appeared for the strictest customers, who have no time to lose with going to airports, waiting in line, or for those who enjoy travelling or even flying their own airplanes. That is the new VLJ airplanes, which provide private flights at costs not yet offered by any companies. Aircraft manufacturers are developing these airplanes, searching to fulfill this new market opportunity. This paper aims to present an overall performance analysis of five of these airplanes. The features used by a public tool in the www were considered as the decision criteria. At first, the AHP was applied in order to obtain the criteria weights. Then, using the known performance values for the airplanes, the one with the best overall performance was identified. A second analysis, also using AHP method was carried out, this time replacing performance values by judgments from an aviation market expert.

Keywords: AHP; Airplanes; Performance Analysis; VLJ.

* Corresponding author