

SAFE TAKE-OFF WITH RUNWAY ANALYSES



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Diploma Thesis from the year 2012 in the subject Engineering - Aerospace Technology, grade: A, - (University of Zilina), course: Aviation, language: English, abstract: The economic situation of recent years forces to operate at highest payloads possible and therefore maximum allowable take-off masses of an aircraft. An optimization of the take-off performance plays important role as never before. The take-off performance data for several flight and ambient conditions are usually presented in so called runway analyses. This paper answers possible questions about their application and computing, which may interest a personnel of flight engineering departments or pilots. Moreover, this thesis offers a summary of factors affecting the maximum take-off mass and appropriate take-off speeds, which together represent necessary performance data for a safe take-off. Particular sections describe a principle of the optimization process and offer a designed conceptual model in a form of flowcharts according to which it is possible to perform a calculation for various aerodrome or weather conditions. The created conceptual model may also serve as a core for the software application, which reduces the time required to do the calculation manually.