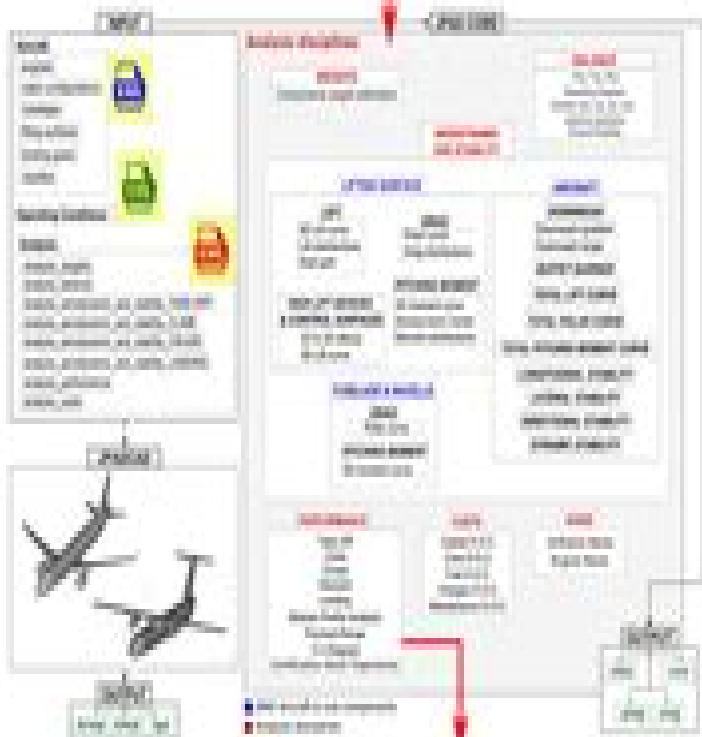


JPAD (Java API for Aircraft Designers)

JPAD is an application programming interface (API) able to support civil transport aircraft designers to accomplish multi-disciplinary simulation-based analysis and optimization workflows.

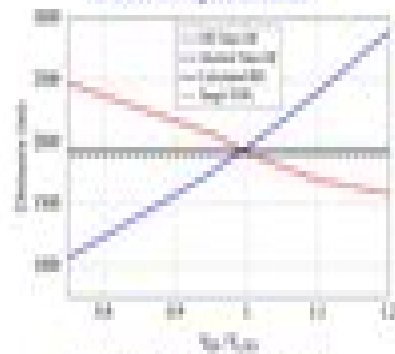
The API is a Java software library containing classes and utility functions that can be used to build software systems running MCAD procedures.

JPAD comes in different interdependent software modules providing modeling, simulation, and analysis features.

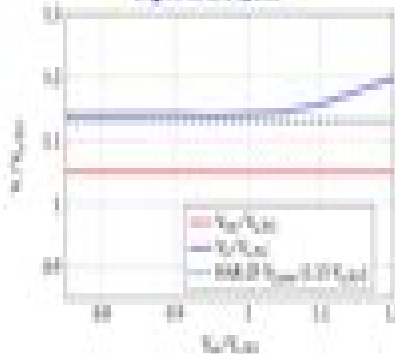


The article presents an application example that considers the Airbus A320-300 as a reference aircraft and includes complete take-off and landing performance studies.

A320-300 balanced field length and decision speed calculation



A320-300 take-off rotation speed and take-off safety speed variations with engine failure speed



Typical transport aircraft mission breakdown



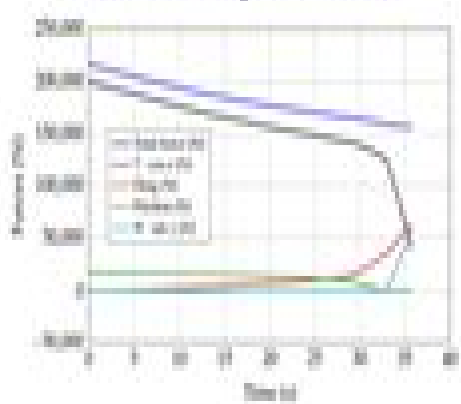
The API provides a simulation-based aircraft performance module whose implementation details are introduced by the article.

This work focuses on take-off and landing simulation models, including certification noise trajectories

Take-off and landing trajectories & noise certification measurement points



Horizontal forces during take-off simulations



Aircraft Performance Design Erson Solution Manual

R Sanford



Aircraft Performance Design Erson Solution Manual:

Scientific and Technical Aerospace Reports ,1995 **Advances in Human Aspects of Transportation: Part II** Neville Stanton,Steven Landry,Giuseppe Di Bucchianico,Andrea Vallicelli,2021-07-19 Human Factors and Ergonomics have made a considerable contribution to the research design development operation and analysis of transportation systems which includes road and rail vehicles and their complementary infrastructure aviation and maritime transportation This book presents recent advances in the Human Factors aspects of Transportation These advances include accident analysis automation of vehicles comfort distraction of drivers understanding of distraction and how to avoid it environmental concerns in vehicle systems design intelligent transport systems methodological developments new systems and technology observational and case studies safety situation awareness skill development and training warnings and workload This book brings together the most recent human factors work in the transportation domain including empirical research human performance and other types of modeling analysis and development The issues facing engineers scientists and other practitioners of human factors in transportation research are becoming more challenging and more critical The common theme across these sections is that they deal with the intersection of the human and the system Moreover many of the chapter topics cross section boundaries for instance by focusing on function allocation in NextGen or on the safety benefits of a tower controller tool This is in keeping with the systemic nature of the problems facing human factors experts in rail and road aviation and maritime research it is becoming increasingly important to view problems not as isolated issues that can be extracted from the system environment but as embedded issues that can only be understood as a part of an overall system

Federal aviation regulations United States. Federal Aviation Administration,1993 Monthly Catalog of United States Government Publications ,1996 *Monthly Catalogue, United States Public Documents* ,1983 **United States Army Aviation Digest** ,1990 *Flying Magazine* ,2001-08 *International Aerospace Abstracts* ,1987 **Flying Magazine** ,2003-07 **Subject Guide to Books in Print** ,1984

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