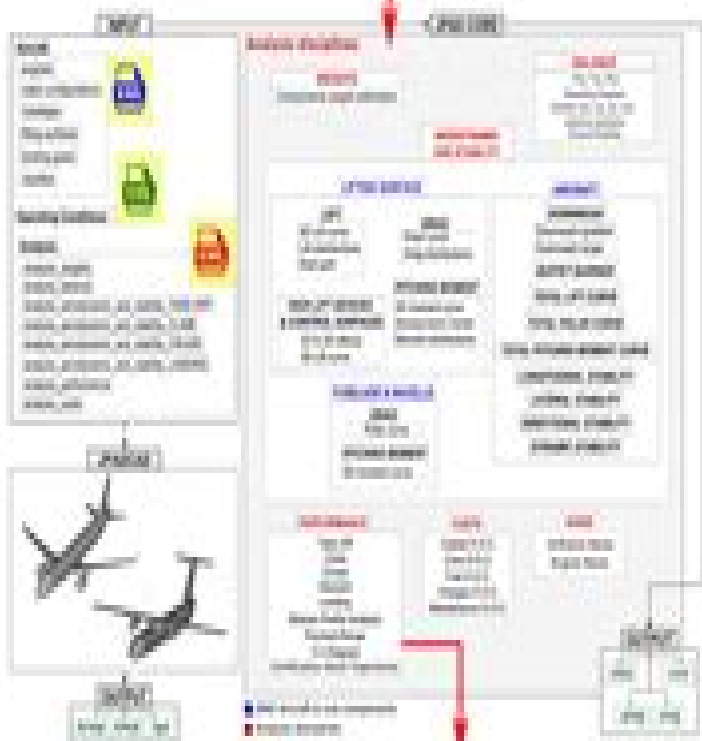


JPAD (Java API for Aircraft Designers)

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.



Typical transport aircraft mission breakdown



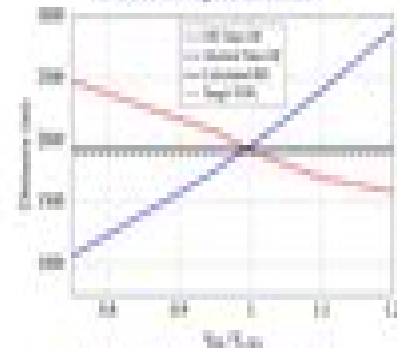
The API provides a simulation-based aircraft performance module whose implementation details are introduced by this article.

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

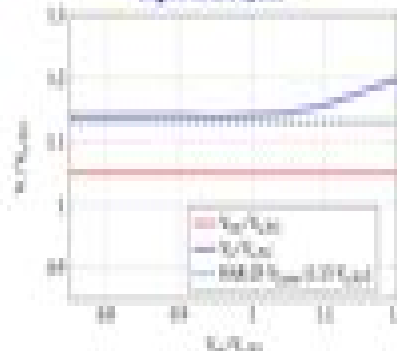


The article presents an application example that considers the Airbus A320-300 as a reference aircraft and includes complete take-off and landing performance studies.

A320-300 balanced field length and decision speed calculation



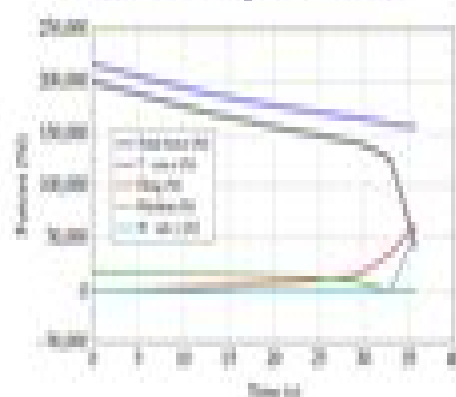
A320-300 take-off rotation speed and take-off safety speed variations with engine failure speed



Take-off and landing trajectories & noise certification measurement points



Horizontal forces during take-off simulations



Aircraft Performance And Design

John David Anderson (Jr.)



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