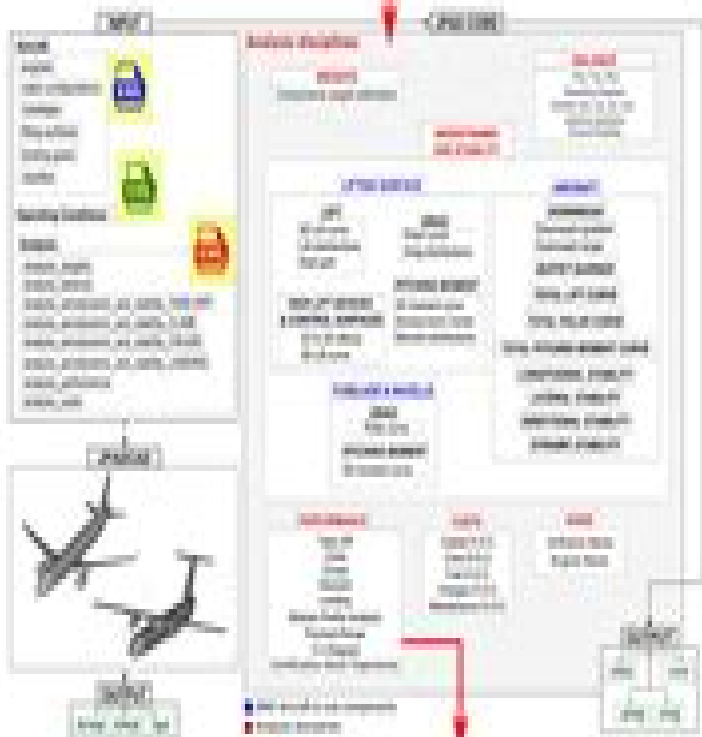


JPAD (Java API for Aircraft Designers)

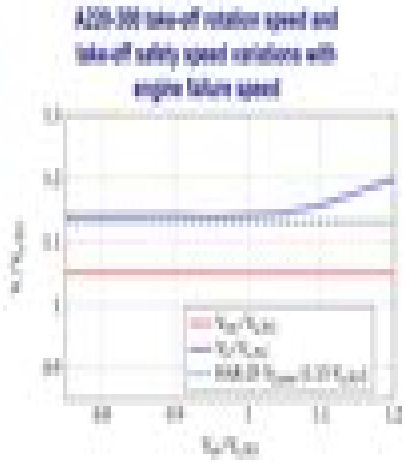
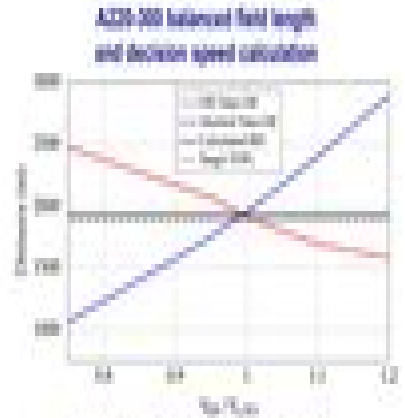
JPAD is an application programming interface (API) able to support civil transport aircraft designers to accomplish multi-disciplinary simulation-based analysis and optimization workflows.

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.



Typical transport aircraft mission breakdown



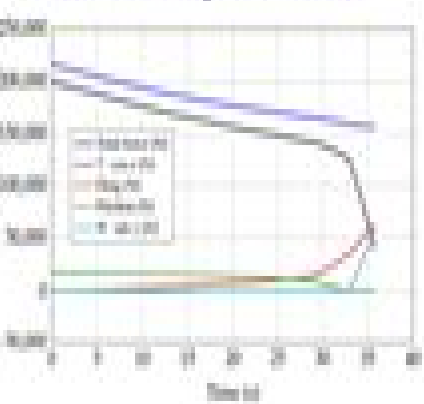
The API provides a simulation-based aircraft performance module whose implementation details are introduced by the article.

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 And Design

Mitra



Aircraft Performance And Design:

Aircraft Performance & Design John David Anderson,1999 Balancing technical material with important historical aspects of the invention and design of aeroplanes this book develops aircraft performance techniques from first principles and applies them to real aeroplanes *Aircraft Performance* Mohammad H. Sadraey,2017-01-27 Aircraft Performance An Engineering Approach introduces flight performance analysis techniques that enable readers to determine performance and flight capabilities of aircraft Flight performance analysis for prop driven and jet aircraft is explored supported by examples and illustrations many in full color MATLAB programming for performance analysis is included and coverage of modern aircraft types is emphasized The text builds a strong foundation for advanced coursework in aircraft design and performance analysis *Aircraft Performance and Sizing, Volume II* Timothy Takahashi,2017-12-15 This book is a concise practical treatise for the student or experienced professional aircraft designer This volume comprises key applied subjects for performance based aircraft design systems engineering principles aircraft mass properties estimation the aerodynamic design of transonic wings aircraft stability and control takeoff and landing runway performance This book may serve as a textbook for an undergraduate aircraft design course or as a reference for the classically trained practicing engineer

Aircraft Performance and Design, Second Edition Ambar Mitra,2022-04-08 This book is an introduction to the principles of flight such as aerodynamics propulsion and static stability Furthermore the book introduces the analysis of various aspects of an airplane s mission such as takeoff climb cruise descent and landing and bank turn Readers with first year college level proficiency in calculus and physics will fully appreciate the contents The purpose is to keep the students in an Aeronautical Engineering program anchored to the basic figures of merit and preliminary design of an airplane without overwhelming mathematical analysis Even the graduating seniors will find this book as a practical guide for their Capstone Design projects The author would like to thank all his students for their inquiries that made him learn and all his colleagues for their teaching and insight **A Practical Guide to Airplane Performance and Design** Donald R. Crawford,1979 [Aircraft](#)

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analysis the basics of flight mechanics bridging both engineering and piloting perspectives propulsion system performance attributes practical drag prediction methods aircraft up and away flight performance and aircraft mission performance This book may serve as a textbook for an undergraduate aircraft performance course or as a reference for the classically trained practicing engineer

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Theory and Practice of Aircraft Performance Ajoy Kumar Kundu, Mark A. Price, David Riordan, Peter Belobaba, Jonathan Cooper, Allan Seabridge, 2016-09-02 Textbook introducing the fundamentals of aircraft performance using industry standards and examples bridging the gap between academia and industry Provides an extensive and detailed treatment of all segments of mission profile and overall aircraft performance Considers operating costs safety environmental and related systems issues Includes worked examples relating to current aircraft Learjet 45 Tucano Turboprop Trainer Advanced Jet Trainer and Airbus A320 types of aircraft Suitable as a textbook for aircraft performance courses

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