

BWB Wingbox Design with Aeroelasticity Constraints



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Research Project Progress Report

Introduction - What is the need for this project?

1. Aerostructural Coupling

2. Blended Wing Body Design

Starting Point

Topology Optimization code

In MATLAB

By Simone Coniglio

Aeroelasticity Toolbox

In Python

By Joan Colomer

Tasks

1. Understand the MATLAB Topology Optimization code
2. Translate the Simone's code to Python
3. Use Joan's aerostruct toolbox to add Aeroelasticity Constraints
4. Apply it to an innovative design, a BWB

Progress

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Any Questions?