



European Aeronautics Science Network

ILAS

Integration of Low Acoustic Signatures

Abstract

ILAS benchmarks nine variants of seven methods of prediction of noise shielding and installation effects. Four of these methods are further developments of existing codes and five are essentially new. Altogether they span the full range of promising state-of-the-art techniques.

After benchmarking the methods are applied to:

- seven conventional aircraft configurations, to assess installation effects;
- eight novel aircraft configurations to examine the potential of shielding as noise reduction measure.

In addition experiments are conducted on a novel noise reduction technology, namely airframe acoustic liners.

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