

Aircraft exterior noise measurement and analysis techniques

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Résumé ou extrait : This volume describes testing and analysis techniques to measure aircraft noise primarily for purposes of noise certification as specified by the International Civil Aviation Organization. The relevant aircraft noise certification 'Standards' and 'Recommended Practices' are presented in detail for subsonic jet aeroplanes, for heavy and light propeller-driven aeroplanes and for helicopters. The practical execution of conducting noise certification tests is treated in depth. The characteristics and requirements of the acoustic and non-acoustic instrumentation for data acquisition and data processing are discussed, as are the procedures to determine the special noise measures 'Effective Perceived Noise Level' and 'Maximum Overall A-weighted Noise Level' that are required for the noise certification of different types of aircraft. The AGARDograph also contains an extensive -- although selective -- discussion of test

and analysis techniques for more detailed aircraft noise studies by means of either flight experiments or full-scale and model-scale wind tunnel experiments

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