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BIRDSTRIKE STATISTICS AS A DESIGN TOOL

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ABSTRACT

Statistics relevant to the aerospace sector are routinely generated by regulatory bodies, engine manufacturers, airframe manufacturers and research organisations. Whilst these statistics are interesting from a, background information and setting trends viewpoint, they are seldom used directly in the design process for new components.

This paper shows one way in which raw statistics when coupled with the Monte-Carlo technique may be used to generate data which is able to directly influence designs. The example chosen for this paper is that of birdstrike resistance of high bypass aircraft engines although the technique is a generic one.

Keywords: Engines, Statistics