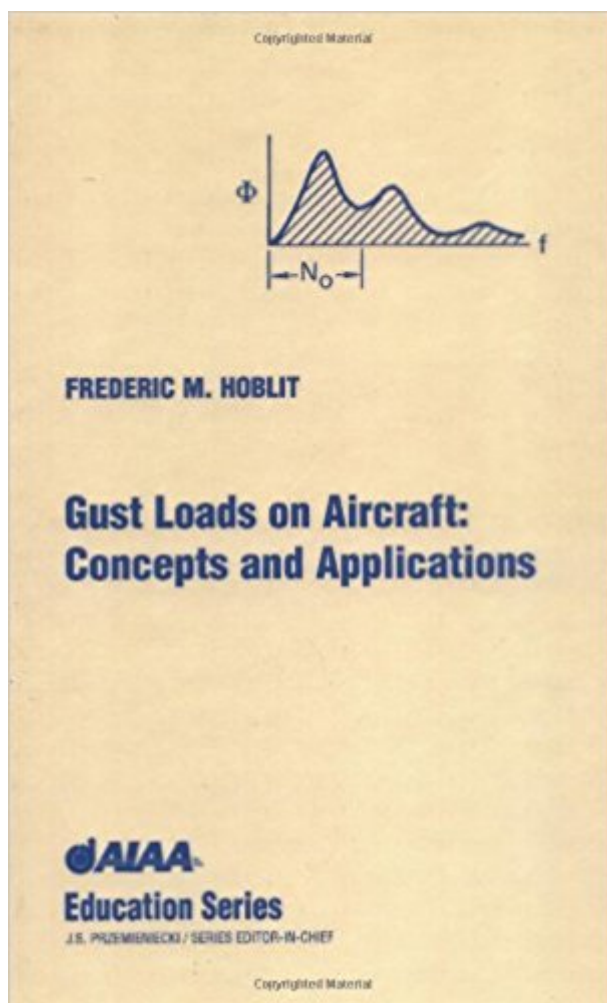


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Gust Loads On Aircraft: Concepts & Applications (AIAA Education)



Synopsis

This is a presentation of the determination of gust loads on airplanes, especially continuous turbulence gust loads. It emphasizes the basic concepts involved and covers relationships, definitions of terminology and nomenclature, historical perspective and explanations of calculations.

Book Information

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Customer Reviews

Excellent book. Presentation was theoretical but direct. Needed more examples and weight cg vs gust velocity presentations so as to utilize for parametric studies and evaluations. I really needed more parametric studies of vehicle weight and cruise velocity vs gust velocity for for accelerations vs fuselage station evaluations.

Frederic M. Hoblit gave us a good text reference.

I use this book a lot. It's a starting point to other books and a lot of research papers. If you have anything to do with gust analysis, this is the book to have.

The book covers historical development of gust loads criteria and analytical methods. The author is (rightly so) a leading proponent of power spectral (PSD) continuous turbulence methods for development of design gust loads and fatigue spectra. The author is the primary developer of the

continuous turbulence requirements contained in FAR-25 and various US military specifications.

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