

# Accelerated Degradation Model Based on Beta Process

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## Abstract

Based on a generalized cumulative damage approach with a stochastic process describing degradation, we provide a new accelerated degradation model for failure based on a Lévy process for parametric inference of system lifetime. In certain physical situations, it is often the case that a degradation process as a positive and non-decreasing Lévy process for degradation process. It is shown that, our model for failure can be approximated closely by accelerated test version of Birnbaum-Saunders and inverse Gaussian distributions.

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