

Comparison Between Neural Network And Weibull Models For Failure Of Boeing 737 Engines

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Summary

Two models for forecasting the failure of Boeing-737 engines were made using an artificial neural network. The first model was made for the failure of the engine in general and due to all technical reasons. The second model was made for engine failure particularly related to erosion. Weibull models were also made to compare with the neural model for validation purposes. It was demonstrated in the results that the neural network models were in closer agreement with real data than the Weibull models in predicting the failure of the engines for both general and erosion cases.

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