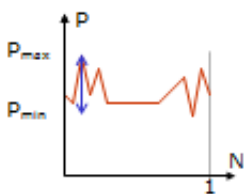




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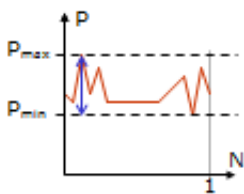
## [Spectrum Loading And Crack Growth](#)

**Load Spectrum for growth calculations**



The overall load spectrum is based on the actual conditions identified from the detailed analysis of a single load cycle. This cycle repeats during the integration process.

**Load Systems**



The way that the energy release rate varies through the load cycle is not known in advance. The full history is used:


- to extract major cycle-only, or for rainflow count to extract major and minor cycles;
- to define the time history for time dependent crack growth calculations.

Load system 1 extracts and stores the full history for one pass of the complex cycle. In this example the major cycle is extracted and positioned in the timeline.

The full cycle load system is integrated directly without need for definition of any additional load system.

**Load Conditions**

Complex load cycle  
e.g. thermal transient with static pressure



Multiple load conditions

A full load cycle is analysed. The loading is complex and non-proportional i.e. the magnitude and direction of the maximum energy release rate may change continuously through the load cycle.



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var q = 'spectrum%20loading%20and%20crack%20growth'; FOREWORD - This report describes an investigation of fatigue crack growth inter-action effects in airframe structural materials performed by the Grumman.. An analytical device for improving the accuracy of crack growth predictions in metal subjected to variable amplitude cyclic loading is presented.. K Gunther and u G Goranson Quantifying Spectrum Loading Effects on Fatigue Crack Growth in 7075 T73 Aluminum.

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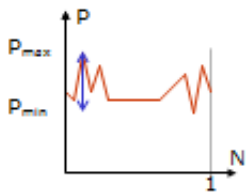
The local stress,  $\sigma$  appl  $x$ , is the fluctuating stress distribution induced by the applied load.. Its range and maximum level control the instantaneous fatigue crack Table of Contents.. Spectrum Loading Effects on Crack Growth in Major Components of Commercial Transport Aircraft Book Title Application of Fracture Mechanics to Materials and.. Spectrum loading effects on crack growth in major components of commercial transport aircraft c.. Introduction Discussion Discussion Discussion Observations on the Prediction of Fatigue Crack Growth Propagation Under Variable-Amplitude Loading.

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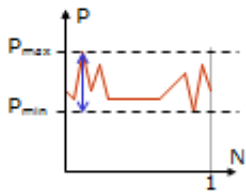
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