

# Metal Fatigue In Engineering

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Metal fatigue, weakened condition induced in metal parts of machines, vehicles, or structures by repeated stresses or loadings, ultimately resulting in fracture under a stress much weaker than that necessary to cause fracture in a single application.

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These relationships were first published by A. Z. Wöhler in 1858. They discovered that as they reduced the magnitude of the cyclic stress, the part would survive more cycles before breaking. This behavior became known as "FATIGUE" because it was originally thought that the metal got "tired".

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Fatigue has traditionally been associated with the failure of metal components which led to the term metal fatigue. In the nineteenth century, the sudden failing of metal railway axles was thought to be caused by the metal crystallising because of the brittle appearance of the fracture surface, but this has since been disproved. [1]

## **Fatigue (material) - Wikipedia**

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metal fatigue in Engineering topic. weakness in metal that makes it likely to break, caused for example by frequent shaking over a long period Examples from the Corpus metal fatigue • It is not just artistic ephemera which suffer from metal fatigue in the heat of ubiquitous exposure.



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Fatigue Design Methods. Macro/Micro Aspects of Fatigue of Metals. Fatigue Tests and Stress-Life (S-N) Approach. Cyclic Deformation and the Strain-Life ( $\epsilon$ -N) Approach. Fundamentals of LEFM and Applications to Fatigue Crack Growth. Notches and Their Effects. Residual Stresses and Their Effects on Fatigue Resistance.

### **Metal Fatigue in Engineering 2nd edition (9780471510598 ...**

Required: Metal Fatigue in Engineering, Ali Fatemi, Wiley-Interscience, 9780471510598. Computer Requirements: ProEd minimum computer requirements. Some homework assignments will entail ability to solve equations on a spreadsheet. It is also anticipated that some demonstrations and/or optional assignments would entail running fatigue life ...

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