



# **Fretting Fatigue: Advances in Basic Understanding and Applications (Astm Special Technical Publication, 1425,)**

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## **Fretting Fatigue: Advances in Basic Understanding and Applications (Astm Special Technical Publication, 1425,)** ASTM International

Gain an understanding of the fretting fatigue phenomenon and for developing fretting fatigue design. Fretting is well known to degrade fatigue strength significantly. Fretting fatigue failure has been increasingly disclosed in service components because those components have suffered more severe loading conditions than before due to the demands of save-energy and environment-preservation. Twenty-nine peer-reviewed papers cover: Fretting in Steel Ropes and Cable—reviews the topic. Fretting Wear and Crack Nucleation—covers the process of fretting crack nucleation under fretting wear through both detailed in-situ observations and mechanical models, which included not only fracture mechanics but also interface mechanics. Fretting Fatigue Crack and Damage—discusses fretting fatigue crack propagation under mixed mode, based on the fracture mechanics approach. Life Prediction—addresses fretting fatigue life estimations, based on various approaches including fracture mechanics, notch fatigue analysis and multiaxial fatigue parameters. Fretting Fatigue Parameter Effects—covers effects of parameters that influence fretting fatigue behavior and strength, including contact pressure, friction coefficient, contact pad geometry, and mating material. Loading Condition and Environment—addresses the effect of loading conditions including block loading, high frequency and service loading. Titanium Alloys—discusses titanium alloys, which have been typically used for structural components suffering fretting fatigue, such as turbine components and bio-joints, due to their lightweight as well as excellent corrosion resistance. Surface Treatment—deals with improvements of fretting fatigue strength by using coating techniques. Case Studies and Applications—introduces case studies on electrical cables, dovetail joints, pin joints and rollers. This volume is a valuable resource for engineers that need to develop an understanding of fretting fatigue and also serves the fretting fatigue community including both newcomers and those that have been involved for some time.

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