

## Metal Fatigue Effects Of Small Defects And Nonmetallic Inclusions

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Metal Fatigue: Effects of Small Defects and Nonmetallic Inclusions Yukitaka Murakami This book is an English translation of the original Japanese, first published in 1993, but with two brand new chapters on fatigue failure of steels and the effect of surface roughness on fatigue strength.

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Since the mechanics of small cracks must be considered in addition to the hydrogen effect, the effects of hydrogen on fatigue crack growth from the viewpoint of a small defect and the frequency

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effect on various steels will be discussed with emphasis.

## **Metal Fatigue | ScienceDirect**

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This chapter investigates the effects of small defects and small cracks on torsional fatigue strength. The rotating bending and torsional fatigue tests were undertaken on annealed 0.46% C steel (S45C) specimens, which contained small artificial holes with diameters ranging from  $d = 40$  to  $500 \mu\text{m}$ . Similar rotating bending and torsional fatigue ...

## **Metal Fatigue | ScienceDirect**

[4] Murakami, Y., Metal Fatigue: Effects of Small Defects and Nonmetallic Inclusions, Yokendo Ltd, Tokyo, 1993. [5] Kitagawa, H. and Takahashi, S., ``Applicability of fracture mechanics to very ...

## **(PDF) Small Defects and Inhomogeneities in Fatigue ...**

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.. Though the term dates back to the 19th century and though considerable observation of the phenomenon was made then and in the first half of the ...

## **Metal fatigue | metallurgy | Britannica**

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In materials science, fatigue is the weakening of a material caused by cyclic loading that results in progressive and localized structural damage and the growth of cracks. Once a fatigue crack has initiated, it will grow a small amount with each loading cycle, typically producing striations on some parts of the fracture surface.

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

Metal fatigue is an essential consideration for engineers and researchers who are looking at factors that cause metals to fail through stress, corrosion, etc. This is an English translation of a book originally published in Japan in 1993, with an additional two chapters on the fatigue failure of steels and the effect of surface roughness on ...

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Metal Fatigue: Effects of Small Defects and Nonmetallic Inclusions is the most trusted, detailed and This expanded second edition introduces highly important emerging topics on metal fatigue, pointing the way for further research and innovation.

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