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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 tests were carried out on a high carbon bearing steel SUJ2 on a nodular cast iron, and on maraging steel.

### **Metal Fatigue | ScienceDirect**

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 is an essential consideration for engineers and researchers looking at factors that cause metals to fail through stress, corrosion, or other processes.

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