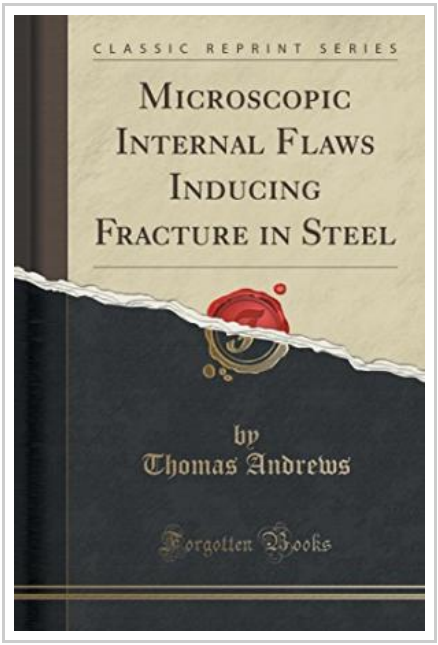

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Microscopic Internal Flaws Inducing Fracture in Steel (Classic Reprint)

By Thomas Andrews

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Microscopic Internal Flaws Inducing Fracture in Steel The author has for many years past been engaged on researches with the object of ascertaining some of the causes of the deterioration of metals leading to the accidental fracture of railway axles, propeller shafts, and other metallic constructions. He has recently studied the Effects of Temperature on the Strength of Railway Axles, in an investigation extending over ten years, and has determined, on a large experimental scale, the resistance of metals to sudden concussions at varying temperatures down to zero (0 deg.) Fahr., and indicated the influence of climatic temperature changes on the strength of railway material; the experiments showing that, under certain conditions, temperature is a potent factor in leading to the deterioration of the resisting strength of railway axles and shafts. The author has also completed another investigation on the Effect of Strain on Railway Axles, in which some other aspects of the deterioration by fatigue in metals have been experimentally examined. If it were possible to produce a perfect metal, theoretically, there should be...

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