



Metal Fatigue: Effects of Small Defects and Nonmetallic Inclusions

By Yukitaka Murakami



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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 fatigue strength. The methodology is based on important and reliable results and may be usefully applied to other fatigue problems not directly treated in this book.

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About the Author

Yukitaka Murakami is the special advisor to Director of the International Institute for Carbon-Neutral Energy Research, in Kyushu University as well as Director of the Research Center for Hydrogen Industrial Use and Storage of the National Institute of Advanced Industrial Science and Technology. In 2013, he became an Emeritus Professor at Kyushu University. His research interests have involved strength of materials, metal fatigue, fracture mechanics, hydrogen embrittlement, stress analysis and tribology. He has published 13 books and over 400 papers.

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