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**Fatigue of Metals.** *R. Cazaud.* Translated by *A. J. Fenner.* Philosophical Library, Inc., New York. 1953. xiv+334 pp. \$12.50.

This book by Dr. Cazaud is about the failure of metals under oft repeated stresses. It deals with many phases of fatigue testing including testing machines and the effects of physical variables on the results. The opening chapter is a brief history of the subject and there follows an excellent description of the physical and visual characteristics of fatigue failures with some very fine photographs. The book is a good resumé of factual knowledge and is heavily documented with references, curves, tables and the results of experiments, many of them the author's own work.

The editing and presentation are somewhat ragged. Typographical errors are noted and chapter headings do not always define clearly the content of the chapter. Theories of the mechanism of fatigue are recounted in too hasty a manner and the author seems timid about using the mathematical and thermodynamic approaches with which current literature is crowded.

However, being non-mathematical, the book can be read by mill foremen, shop operators, and draughtsmen and yet it is not without value to the more advanced student of physical testing.

The original book, published in 1948, is ably translated by Mr. Fenner. It reads easily and interestingly and except for the use of metric values one would not suspect its foreign origin.

J. O. LORD.