

Failure Atlas for Hertz Contact Machine Elements



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著者:Tallian, T.E.

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Like its predecessor, this volume is comprehensively written and meticulously organized. It is a step-by-step reference that illustrates, describes and classifies the visual and microscopic distinguishing marks of Hertz contact machine element (rolling bearing, gear, cam, etc.) failures. This second edition is updated with imagery illustrating failures of ceramic components and assemblies lubricated with vapor. In addition, several chapters have been edited to incorporate improved understanding of failure mechanisms. Part I contains vital introductory material about each major failure class and gives perspective on the role of that failure in component performance. The author presents specific background on diagnosis by failure morphology, relevant literature, general concepts of failure classification, and distinguishing features. Part II

offers more than 500 reference images accompanied by interpretive text. This comprehensive visual identification material provides the diagnostician with a ready comparison with observed failures. Each plate image carries a list of specimen and image data, plus descriptions of failure mode, image details, and failure cause.

作者介绍:

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