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Failure Atlas Hertz For Contact Machine Elements 2nd Edition



Synopsis

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.

Book Information

Hardcover: 496 pages

Publisher: American Society of Mechanical Engineers; 2nd edition (January 2000)

Language: English

ISBN-10: 0791800849

ISBN-13: 978-0791800843

Product Dimensions: 8.6 x 1.2 x 11.2 inches

Shipping Weight: 3.9 pounds

Average Customer Review: 5.0 out of 5 stars 3 customer reviews

Best Sellers Rank: #1,647,416 in Books (See Top 100 in Books) #14 in [Books > Engineering & Transportation > Engineering > Mechanical > Tribology](#) #739 in [Books > Engineering & Transportation > Engineering > Mechanical > Machinery](#) #312546 in [Books > Textbooks](#)

Customer Reviews

Tallian used to work for SKF Bearings at their engineering research center in Utrecht Netherlands. In the bearing industry he is well known. Its a good book but not for the beginner/non engineer. You should have some experience with looking at failures. I wish I had more time to dig into using it. I am glad I have this book.

The "Failure Atlas for Hertz Contact Machine Elements" is a very valuable resource in the field of failure analysis of highly loaded contact surfaces in machinery. In this book Tallian presents hundreds of very high quality images of mostly bearing surfaces together with a description of the application and also a failure analysis. The type of failures is presented in a systematic way following a classification code. The amount of work that is included in this book equals a lifetime in this field. Tallian is today retired after many years working at a large ball bearing company but his

work will be of great value for many people for many years to come.

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