



# Friction, Wear, and Erosion Atlas

*Kenneth G. Budinski*

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Friction, wear, and erosion are major issues in mechanical engineering and materials science, resulting in major costs to businesses operating in the automotive, biomedical, petroleum/oil/gas, and structural engineering industries. The good news is, by understanding what friction, wear, or erosion mode predominates in a mechanism or device, you can take action to prevent its costly failure.

### Seeing Is Believing

Containing nearly 300 photos of component failures, macro- and micrographs of surface damage, and schematics on material removal mechanisms collected over 50 years of tribology consulting and research, **Friction, Wear, and Erosion Atlas** is a must-have quick reference for tribology professionals and laymen alike. Complete with detailed explanations of every friction, wear, and erosion process, the atlas' catalog of images is supported by a wealth of practical guidance on:

- Diagnosing the specific causes of part failure
- Identifying popular modes of wear, including rolling and impact, with a special emphasis on adhesion and abrasion
- Understanding manifestations of friction, such as force traces from a laboratory test rig for a variety of test couples
- Recognizing liquid droplet, solid particle, slurry, equal impingement, and cavitation modes of erosion
- Developing solutions to process-limiting problems

Featuring a glossary of tribology terms and definitions, as well as hundreds of visual representations, **Friction, Wear, and Erosion Atlas** is both user friendly and useful. It not only raises awareness of the importance of tribology, but provides guidance for how designers can proactively mitigate tribology concerns.

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