

VibraTools Suite™



The software for experimental fatigue, durability and environmental engineering

- Powerful fatigue, environmental and durability analysis
- ISO TS 10811-2 & TS 10811-1
- User friendly
- Powerful reporting capabilities
- Compatible with most hardware platforms¹
- Flexible graphing and presentation capabilities
- MATLAB®-based for superior power and flexibility

Key Benefits

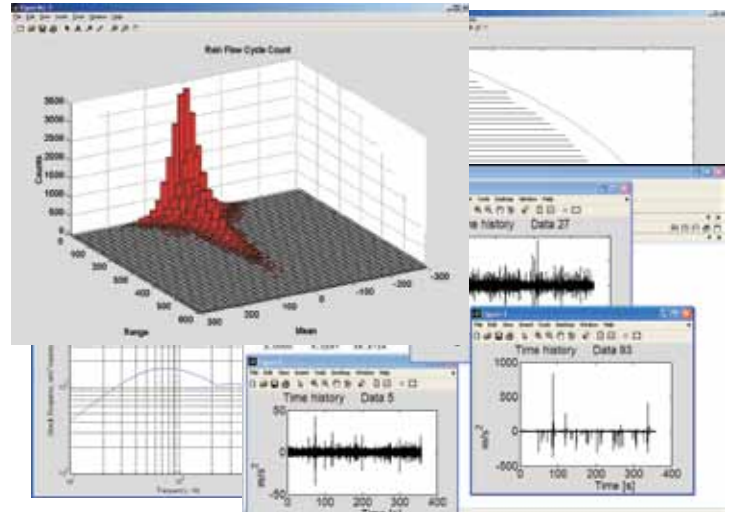
DuraTools™ provides you with the capability needed for fatigue and durability analysis plus environmental engineering applications. DuraTools™ contains the tools needed to create test spectra for a vibration test from field data of vibration signals. With DuraTools™, you have access to Shock Response Spectra, various other response spectra, rainflow counting, Palmgren-Miner damage estimation, and more! Methods are included for any mechanical environment regardless of whether it is of periodic, random or transient nature.

Durability Analysis DuraTools™ includes functions for experimental analysis of fatigue with reduction schemes such as range pair and rainflow counting, including advanced possibilities to compute responses from mechanical systems. Standard mean/range plots etc. are available as well as cumulative damage estimation using Miner's rule. [Click — Done!](#)

Environmental Engineering DuraTools™ computes vibration test spectra from measured or synthesized data. With the advanced functions for classification of signals according to ISO TS10811-2, you can easily define a sine test from measured data. Or, with methods such as shock response spectra, and response equivalent peak velocity according to ISO TS10811-1. DuraTools™ is the state-of-the-art platform for designing test spectra that truly corresponds to your random and/or shock environment. [Click — Done!](#)

Mechanical Simulation When you are dealing with damage effects of measured vibrations, you may want to simulate what effect the vibrations have on a model of your mechanical system. Therefore, we have included our unique forced response algorithm.

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Main Features

The SAFE way to

- Keep data under *your* control
- Make traceable scripts
- See and understand what you're doing at all times
- Add your own application-specific commands
- Add Matlab's flexibility and numerical tools
- Import and export data to/from popular file formats



...in addition, you get

- Easy-to-use software with powerful commands for spectral analysis, filtering, durability analysis, etc.
- Easy handling of large channel counts
- Easy graphical user interface (GUI) tools for customizing your applications
- 3D maps of pseudo velocity and SRS
- Excellent price/performance ratio
- Easy upgrade path to add ModalTools™ for powerful and flexible modal analysis.

¹ Contact us for details of product compatibility

Distributor/Representative



Axiom EduTech, Gjuterivägen 6, SE - 31132 Falkenberg, Sweden
Ph: +46 346 713030, Fax: +46 346 13393, info@axiom-edutech.com
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