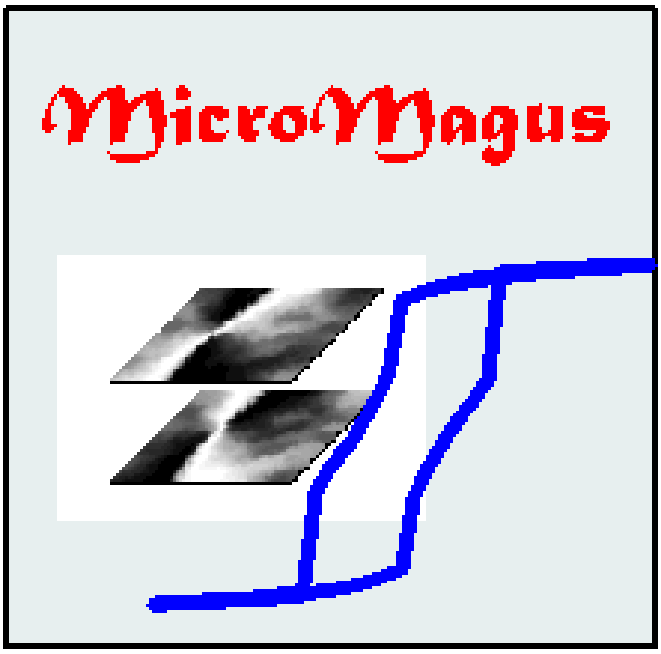
MicroMagus

Micromagnetic simulations

MicroMagus is a software package for quasi-static and dynamic micromagnetic simulations of magnetic thin films and multilayer elements.



Features:

- static micromagnetic simulations:

  Determination of the magnetization configuration (magnetic domain) in equilibrium for given geometry, material parameters and external field

- dynamic micromagnetic simulations:

  Calculation of time dependence of magnetization (with and without thermal fluctuations) in alternating fields, such as in oscillating fields, pulsed fields, etc.

Simulated systems

- Single-and multi-layer elements with and without non-magnetic intermediate layers
- Open and periodic boundary conditions
- Any geometric designs
- Edge Effects - edge roughness
- Polycrystalline thin film structure
- Different or similar structure for successive layers
- Cubic and / or random anisotropy of crystal grains
- Cubic and / or uniaxial homogeneous anisotropy
- FM or AFM interlayer coupling
- Different magnetic parameters for each different layer in multilayer systems

System requirements

- Intel Pentium processor
- Windows NT/2000/XP
  (Windows 2000/XP Professional recommended)
- 128 MB RAM (512 MB recommended)

Additional SPIN-INJECTION module is available on request.

Matesy GmbH
Wildenbruchstrasse 15
D-07745 Jena

Tel.: +49 (0)3641 875-904
Fax: +49 (0)3641 875-905

E-Mail: info@matesy.de
Web: www.matesy.de

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