

magneto*

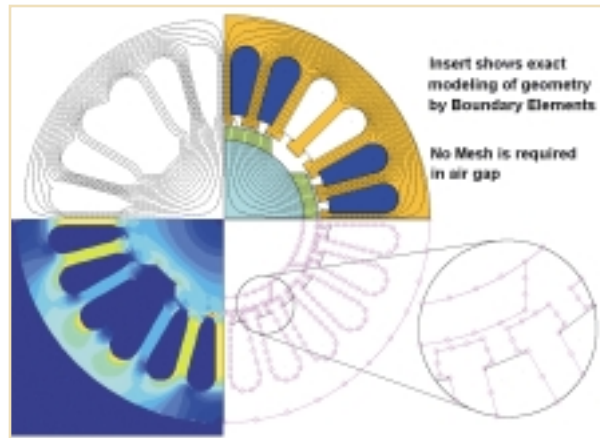
2D/RS Magnetostatic Design Software



Designing products faster and more cost effective is paramount to a company's success. MAGNETO, a fully integrated 2D/RS magnetic field solver from Integrated Engineering Software puts you on the cutting edge of electromagnetic design tools. MAGNETO's innovative Boundary Element Method (BEM) technology assures you of smooth, reliable and extremely accurate results for the most complex magnetic design problems.

Design engineers depend on MAGNETO for the design and analysis of magnetic equipment and components that incorporate linear, non-linear, and permanent magnet materials, including:

- recording heads
- electric (AC/DC) motors
- magnetic shielding
- solenoids and transformers
- magnetizing fixtures
- circuit breakers
- magnetic sensors and instrumentation



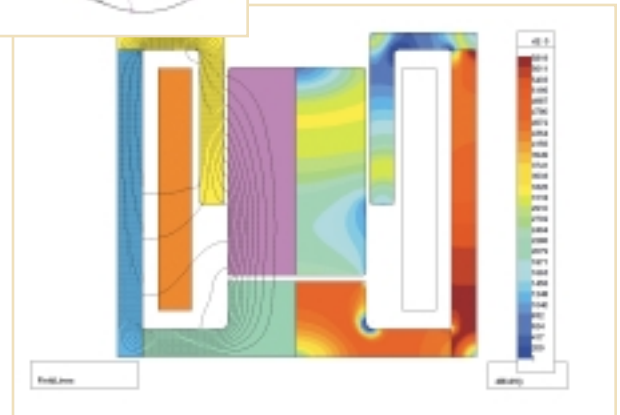
Angular periodic model of a permanent magnet motor.

- top right: Field line plot with material underlay
- top left: Field lines plotted in periodic region
- bottom left: Contour plot of flux density
- bottom right: Element distribution

"MAGNETO allows us to quickly respond with an exact construction of our circuit breakers, eliminating the time it takes to complete a trial and error exercise. The use of MAGNETO allows Airpax to quickly modify circuit assemblies, reduce material costs and design new delay assemblies for future generation products faster than ever before."

Scott Peterson
Design Engineer
AIRPAX

Axisymmetric solenoid with field lines and underlay. The right hand side demonstrates a differential permeability plot for examining saturation in all material regions.



Speed, accuracy...
plus reduced costs

MAGNETO maximizes productivity by allowing for the simulation of virtual prototypes on the computer. MAGNETO significantly reduces design and prototype costs and provides engineers far greater insight into design optimization and verification.

 **INTEGRATED**
ENGINEERING SOFTWARE

www.integratedsoft.com

magneto at a glance

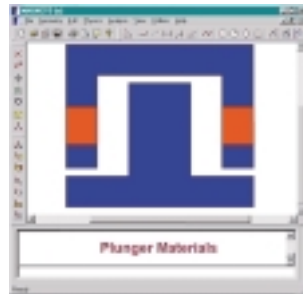
- Magnetostatic, 2D and rotationally symmetric field solver for a diverse range of applications
- Powerful Windows® native toolbar interface for easy data and geometry manipulation
- Wide array of post processing options for design evaluation and optimization
- Industry standard CAD import/export utilities offering time saving convenience for model design creation
- Comprehensive technical support services from the best in the industry

As easy as
one, two, three

MAGNETO provides fast, accurate results, exact modeling of boundaries and easy analysis of open region problems. No Finite Element Mesh (FEM) is required. MAGNETO delivers a powerful, easy to use design and analysis tool right to your desktop.

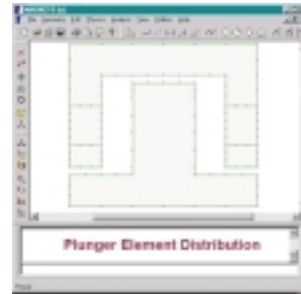
MAGNETO goes to work in just three easy steps.

Step 1



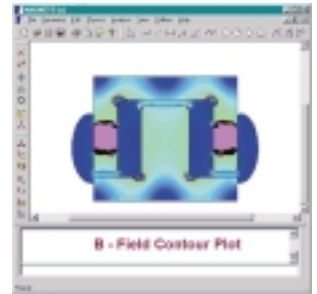
Create your design through our geometric modeler or import from your CAD program.

Step 2



Assign the physical attributes of the model.

Step 3



Analyze the model, display the results and optimize for performance.

MAGNETO'S advanced technical features

- Intuitive and structured tool-bar interface maximizes productivity for experts and beginners
- Static and phasor analysis modes
- Simulation of non-linear and permanent magnet materials
- Simulation of lossy magnetic materials
- Force, torque, flux linkage and inductance calculations
- Display forms, for plotting scalar and vector field quantities, include: graphs, contour plots, arrow plots, color maps and vector loci plots
- High quality graphics and text utility for preparation of reports and presentations
- Data exportable to formatted files for integration with spreadsheets and other software packages
- Batch function allows unattended solution of multiple files
- Powerful parametric feature allows definition of variable parameters to be stepped through allowing the analysis of multiple "what-if" scenarios and facilitating design optimization

Try **MAGNETO**
for 30 days!

Discover how easy MAGNETO is to learn and use. All full version software is available for a 30-day evaluation. Verify and compare the results. Call for a MAGNETO evaluation and start improving productivity today.

(MAGNETO)*



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