Magnetic Field Analysis

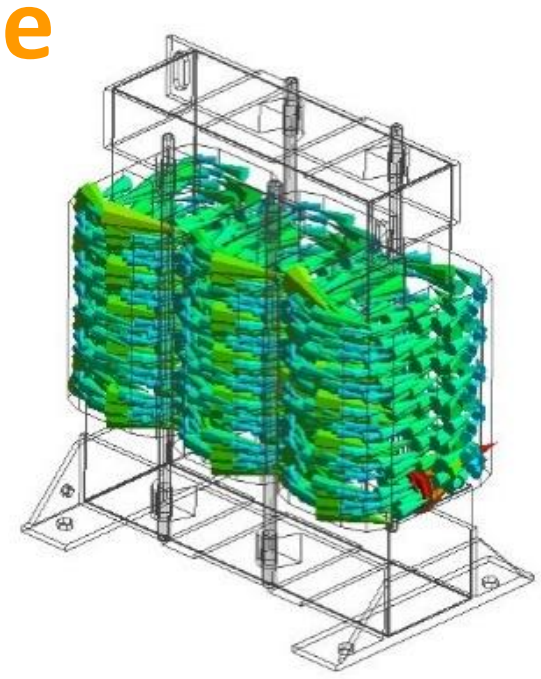
3D/2D Finite Element Method Analysis Software

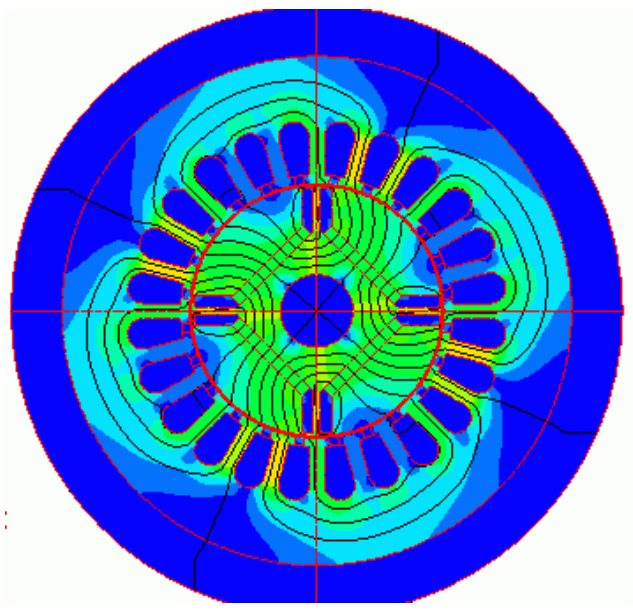
Drive Your Ideas to Reality

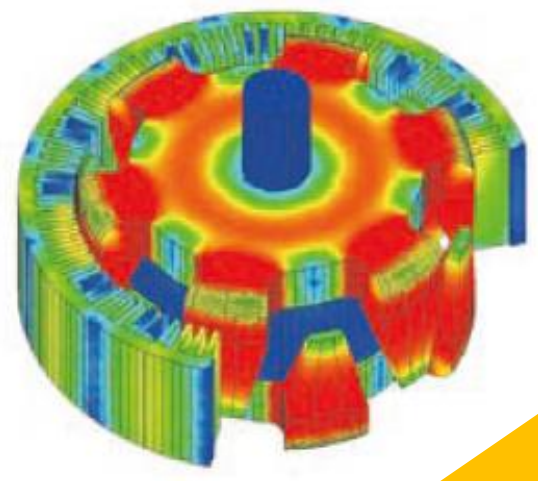
Magnetic field solver simulates, just to name a few, the inductance/coupling coefficient of coil/transformer, the induced voltage, the torque, the cogging torque, the N-T characteristic of motor. The transient analysis is available to solve distributed magnetic field/torque of rotating machinery.

Capabilities at a Glance

- Induction heating
- Electromagnetic force
- Wireless power transmission
- Coil / Transformer
- Magnet
- Motor
- Bus bar
- Magnetic shield







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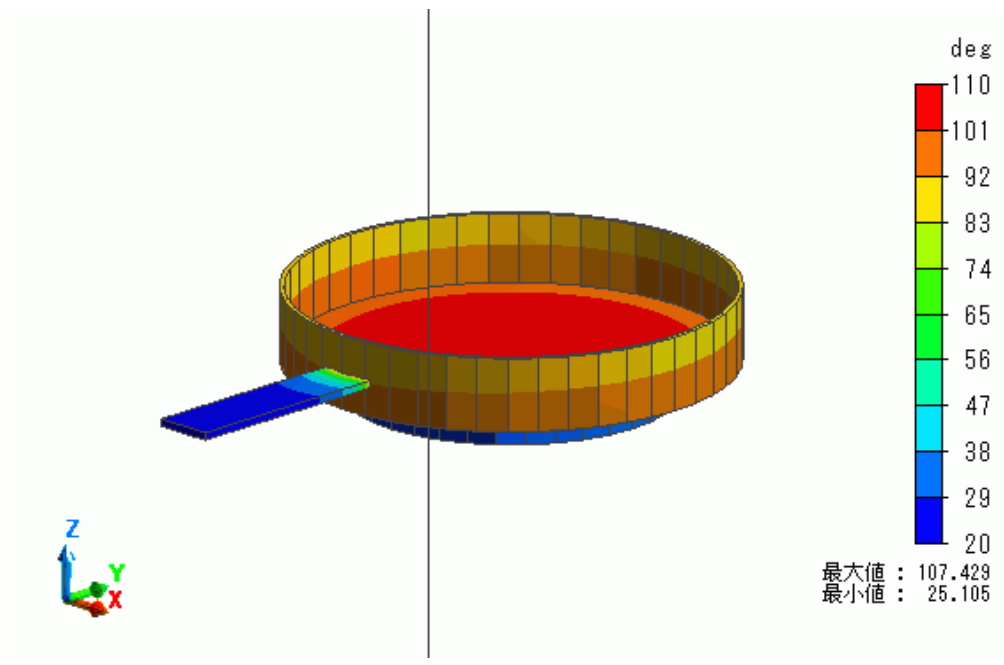
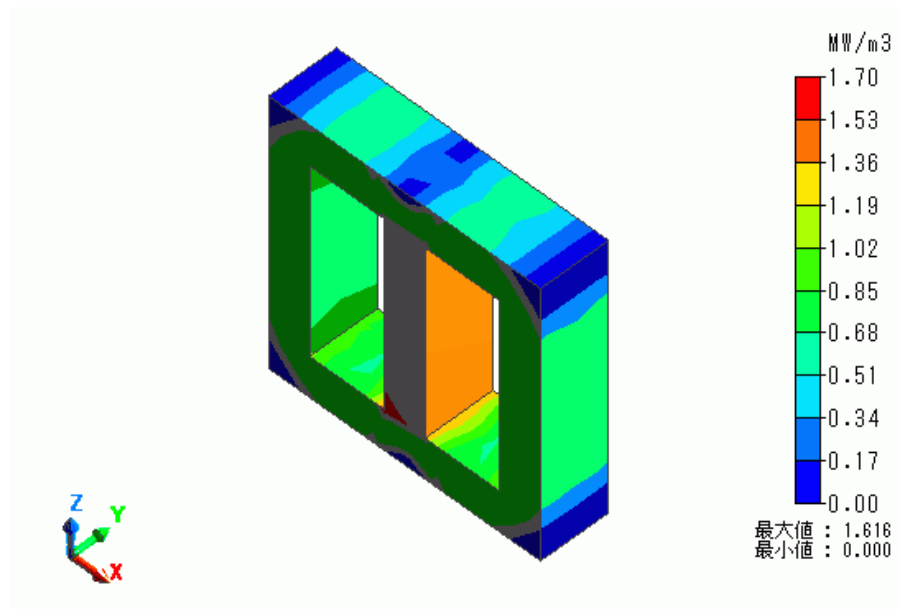
Optimization Is What Counts

How you optimize your design is important, especially in the early stages of your engineering activity. It will reduce the incurring time and cost of, product development and making/re-working prototype samples.
The magnetic field solver provides you with the best possible solution to your design by calculating the items like magnetic flux density and input current.



Induction Heating



Iron Loss

Further Benefits

Comprehensive Functionalities

All in one package from modeling to meshing, simulation, and to results display.

Database Management

A wide range of data can be stored and shared among a group of users; materials, body attributes, and analysis conditions

Intuitive Operations

Rich in graphical user interface.
Automatic meshing suitable for each analysis condition.

CAD Translator

Supports various kinds of CAD formats to import and export, and lets you use the data on hand straight away.

Efficient Engineering

Capable of batch processing and parametric analysis that are essential for optimizing your design. VBA macro function is available.

Multiphysics

In addition to the magnetic field analysis, Femtet has solvers for the thermal conductivity and the mechanical stress. A coupled analysis of these solvers is possible.

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