



2D/RS Magnetic Solver

AdAstraMS Software

Overview

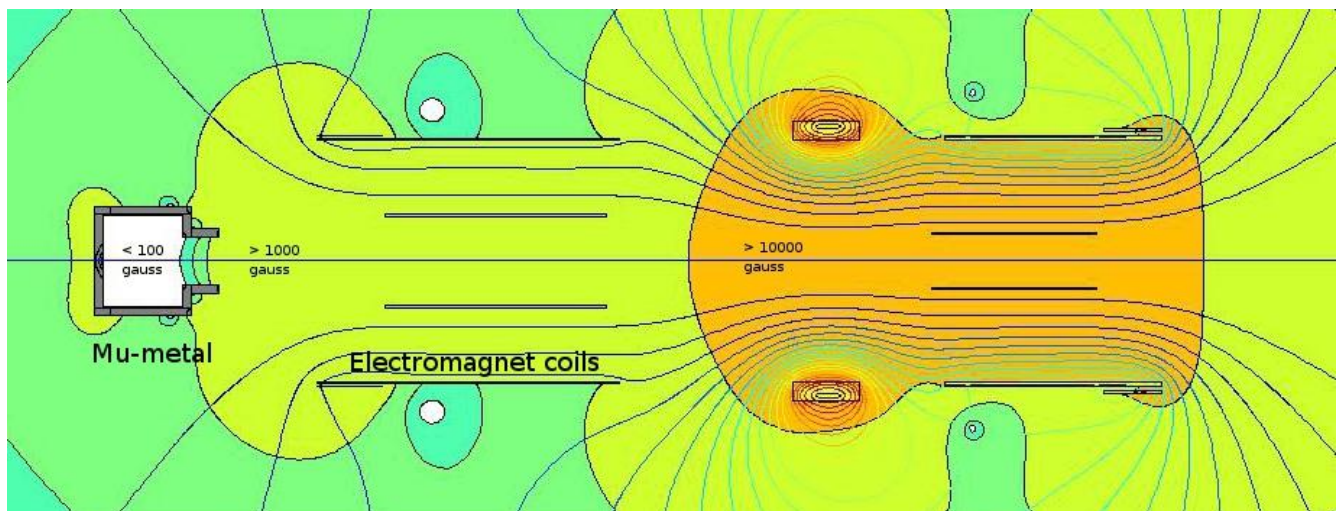
Ad Astra Magnetic Solver (AdAstraMS) is an accurate and fast engineering design tool for solving magnetic fields with rotational symmetry (2D/RS). The AdAstraMS software is ideal for designing magnetic systems with linear and non-linear magnetic materials, such as electromagnetic plasma confinement systems, magnetic shielding and more. AdAstraMS has the following capabilities:

- ⤴ Providing 1D and 2D plots of the magnetic field profiles and contour plots of the field lines
- ⤴ Modeling the effect of mu-metal shielding
- ⤴ Finding electromagnet currents for given magnet geometries and desired field values on the axis
- ⤴ Finding values of the B_z and B_r at any position coordinate (r, z)
- ⤴ Calculating the total magnetic moment for the system
- ⤴ Determining the expansion and compression forces between separate coils

Requirements

- ⤴ Microsoft Windows: XP, Vista or 7; Linux option as available as well
- ⤴ Minimum of 1 GB of RAM
- ⤴ Matlab (optional) for GUI interface and analysis of the results
- ⤴ Input files describing electromagnet coil geometries with rectangular cross-sections
- ⤴ Input files describing B-H curve data and mu-metal geometry (if present)

Price Call for a quote and more information



Screenshot of the AdAstraMS Graphic User Interface for magnetic shield design