

## GeoTutor IV

**Up to 4,000 points per file**

**Bonus** - The EMSphere algorithm, an excellent tool for benchmarking and UXO modeling with the ability to simulate response of up to and often above 1MHz and a full range of both conductivity and susceptibility contrasts with the background.

**GUI Interface** - Intuitive User Interfaces for Windows NT/98/2000/XP

### **New to Version IV**

- Online registration
- Updated video tutorials
- A list of open tools is saved at the end of a GeoTutor session so these same tools can be launched automatically the next time GeoTutor is run
- Default data selection for the 2D plotter
- Generic resistivity data import

### **Data Imports**

- Real geophysical data imports: gravity, magnetics, FEM (airborne and ground), TEM (ground and borehole), IP, Resistivity

### **3D Modeling**

- Easy model building: flexible profile generation and manipulation, multiple system geometries, etc.
- Plate, prism and polyhedra anomalies
- Synthetic Topography-Poly Generator for modeling complex geological anomalies and topography
- Multiple body interactions
- 3D forward simulation, including the batch mode
- Model building tool in 3D space: easy object manipulation and adjustment, single-click conversion of prisms to polyhedra, etc.

### **Inversion**

- 1D inversion for FEM, MT and CSAMT data
- 3D inversion for Magnetics

## **Visualization**

- Data visualization in 3D space, as profiles, vectors, true 3D surfaces or contoured surface along with the 3D structure display
- Display of 3D models sliced and diced in the 3D Visualizer
- Easy object manipulation and 3D modeling tools available right in the Visualizer

## **Plotting**

- Comprehensive XY Plotter for plotting data, decays and positions
- Multi-channel and multi-profile plotting
- Flipping between resistivity and conductivity
- Switching between channels, profiles and models
- Plotting to scale
- Multiple plots per page
- Residual plotting
- Saving plotting defaults for rapid plotting of model suites

## **Gridding and Grid Presentation**

- Automatic gridding based on the Natural Neighbor technique
- Gridding adjustments: changing the grid size, spatial radius, etc.

## **Contouring**

- OpenGL interpolation
- Multi-component contours - switching between components and channels
- Flipping between Apparent Resistivity and Conductivity
- Contour lines and their customization
- Data display as 3D surfaces
- Range of pseudo-depth and pseudo-section displays, Bostick transformations
- 3D volume interpolation of inversion results - slicing and dicing