G-GRID

Ground Grid Analysis & Design

G-GRID software is a substation grounding grid design and analysis program from the staple of MiPower™ developers who are pioneers in providing solutions in power system engineering worldwide. G-GRID has been specially developed for Utility & industry to arrive at an economic & safe design of new grounding grids as also for checking adequacy of existing grids for possible re-inforcement.

Efficient & well-proven analysis algorithms, User-friendly data entry and graphical 2-D plotting make G-GRID software an efficient tool that helps in analyzing earth potentials and enables engineers to choose a technically sound and economical design of grounding grid from a variety of options.

Highlights

Key Features

- ANSI/IEEE 80-1986/2000 Methods
- IEC TS 60479 Compliant
- IS 3043-1986 Compliant
- 2-D Potential profile plotting
- Economic Design of EHV Grounding Grids

Capabilities

- Uniform and Non-uniform (Two Layer) Soil Models
- Two-layer soil model derived from Field Measurements
- Optimizes Gravel Layer Thickness in OD Yards
- User-expandable Ground conductor library
- Models Corrosion Allowance
- 'What If' Analysis

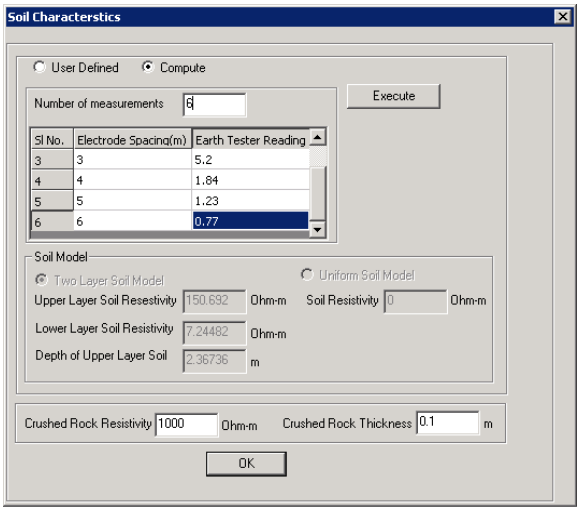
Applications

- Design of HV & EHV AIS & GIS Grounding Systems
- Checking Adequacy of Existing/Designed Grounding Systems
- Soil Model from field Measurement of Soil Resistivity

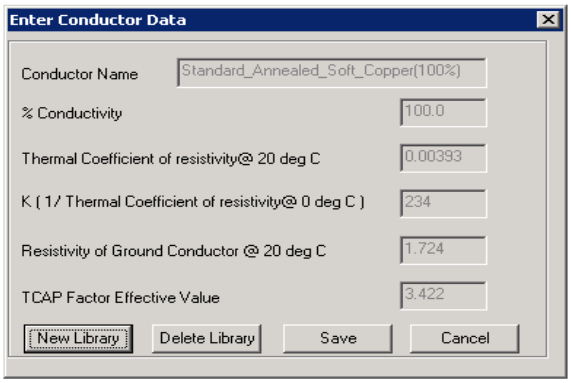
Calculations

- Short Circuit Current(I_f)
- Decrement factor (Df)
- Ground potential rise (GPR)
- Ground system resistance (Rg)
- Surface layer de-rating factor (C_s)
- Tolerable Shock Currents based on IEEE or IEC Standards
- Depth of Burial
- Step, touch & transferred potentials.
- Bill of Quantity, Costing

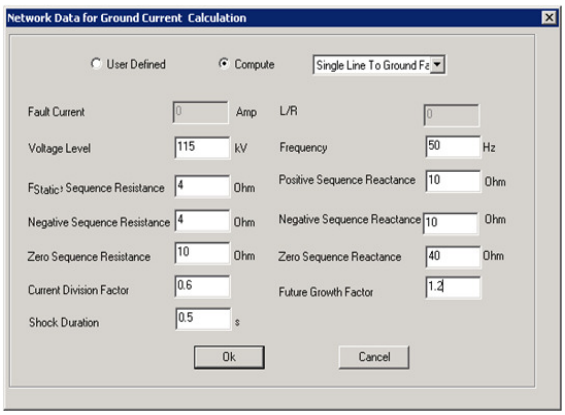
SOIL CHARACTERISTICS



CONDUCTOR DATA



NETWORK DATA



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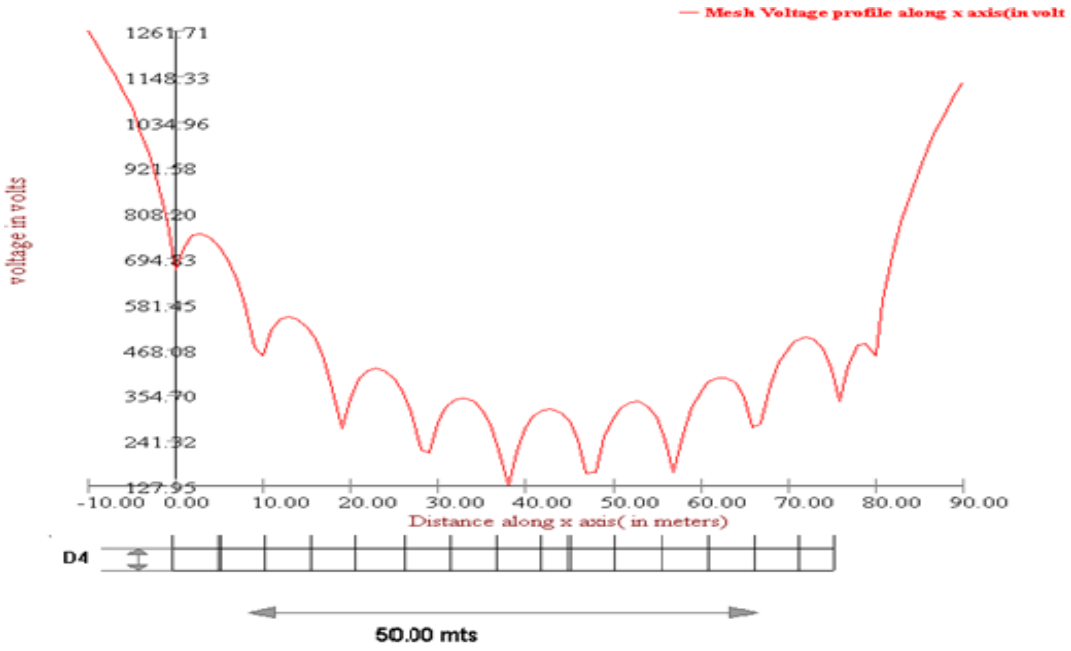
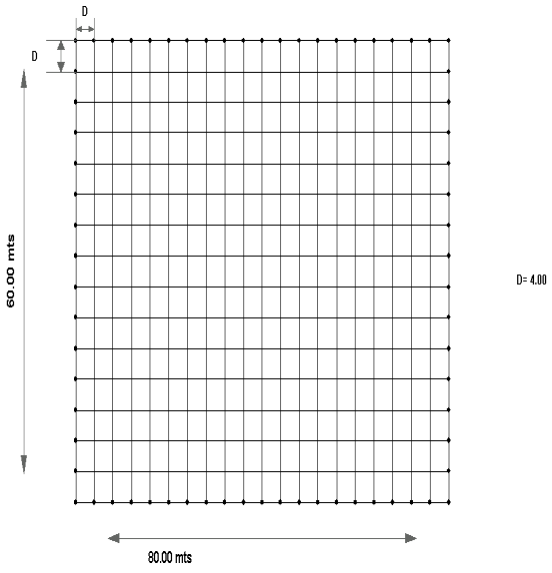
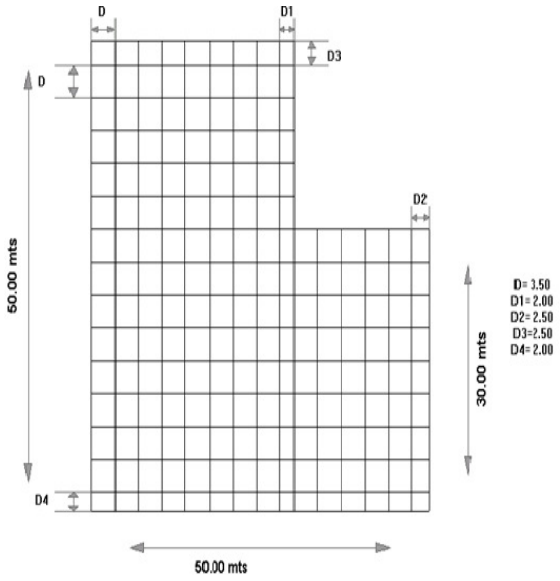
POTENTIAL PROFILE



RECTANGULAR GRID



L-SHAPE GRID



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