

EM.Cube



MODULAR 3D ELECTROMAGNETIC SIMULATION SUITE THAT GROWS WITH YOUR MODELING NEEDS



Welcome to EM.Cube Wiki!

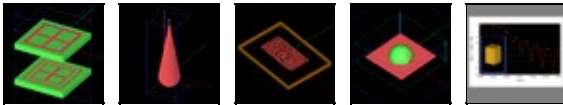
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- Glossary of EM.Cube's Simulation-Related Operations
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Verification & Validation Articles

- V&V Article 1: Modeling Complex Frequency Selective Surfaces Using EM.Cube
- V&V Article 2: Computing Radar Cross Section Of Metallic Targets Using EM.Cube
- V&V Article 3: Modeling Broadband And Circularly Polarized Patch Antennas Using EM.Picasso
- V&V Article 4: Designing Wideband Dielectric Resonator Antennas Using EM.Tempo
- V&V Article 5: Modeling Dispersive Materials Using EM.Tempo



Application Notes

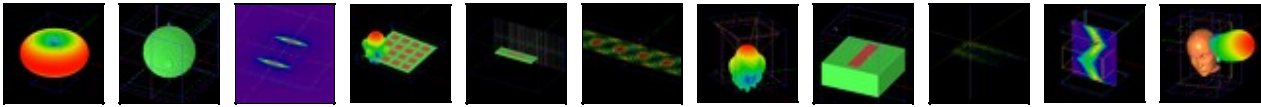
- Application Note 1: Modeling Radar Signature Of Real-Sized Aircraft Using EM.Tempo
- Application Note 2: Modeling Polarimetric Wave Propagation In The Lower Manhattan Scene Using EM.Terrano
- Application Note 3: Designing A Slot-Coupled Patch Antenna Array With A Corporate Feed Network Using EM.Picasso
- Application Note 4: Modeling Large Parabolic Reflectors Illuminated By Pyramidal Horn Antennas Using EM.Cube
- Application Note 5: Simulating The Performance Of Installed Antennas On Vehicular Platforms Using EM.Tempo



EM.Tempo Manual

EM.Tempo Tutorial Lessons

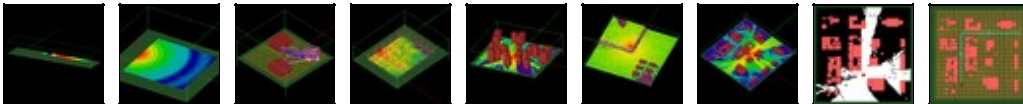
- EM.Tempo Tutorial Lesson 1: Analyzing A Center-Fed Resonant Dipole Antenna
- EM.Tempo Tutorial Lesson 2: Analyzing Scattering From A Sphere
- EM.Tempo Tutorial Lesson 3: Modeling A Probe-Fed Microstrip Patch Antenna
- EM.Tempo Tutorial Lesson 4: Modeling A Patch Antenna Array
- EM.Tempo Tutorial Lesson 5: Analyzing A Planar Microstrip Band-Stop Filter
- EM.Tempo Tutorial Lesson 6: Modeling Rectangular Waveguide Structures
- EM.Tempo Tutorial Lesson 7: Designing A Pyramidal Horn Antenna
- EM.Tempo Tutorial Lesson 8: Analyzing A Periodic Frequency Selective Surface
- EM.Tempo Tutorial Lesson 9: Modeling Coplanar Waveguide Structures And Lumped Devices
- EM.Tempo Tutorial Lesson 10: Modeling Wave Propagation In Dispersive Media
- EM.Tempo Tutorial Lesson 11: Simulating A Monopole Antenna Interacting With A Human Head Model



EM.Terrano Manual

EM.Terrano Tutorial Lessons

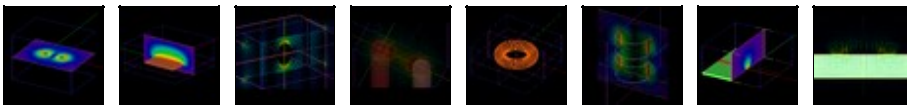
- EM.Terrano Tutorial Lesson 1: Analyzing A Basic Line-Of-Sight Propagation Scene
- EM.Terrano Tutorial Lesson 2: Examining A Polarimetric Propagation Channel
- EM.Terrano Tutorial Lesson 3: Analyzing A Multipath Outdoor Propagation Scene
- EM.Terrano Tutorial Lesson 4: Analyzing Indoor Propagation Inside A Multi-Story Building Model
- EM.Terrano Tutorial Lesson 5: Simulating A Dense Urban Canyon Propagation Scene
- EM.Terrano Tutorial Lesson 6: Modeling Irregular Terrain
- EM.Terrano Tutorial Lesson 7: Parametric Study Of A Realistic Urban Scene
- EM.Terrano Tutorial Lesson 8: Simulating A Communications Link With Directional Antennas
- EM.Terrano Tutorial Lesson 9: Modeling A Mobile Communications Link Using Python



EM.Ferma Manual

EM.Ferma Tutorial Lessons

- EM.Ferma Tutorial Lesson 1: Computing The Electric Field & Potential Due To Spherical Charges
- EM.Ferma Tutorial Lesson 2: Analyzing A Parallel Plate Capacitor
- EM.Ferma Tutorial Lesson 3: Modeling Objects Immersed In A Uniform Electric Field
- EM.Ferma Tutorial Lesson 4: Computing The Magnetic Field Of Linear Currents In Free Space & Magnetic Media
- EM.Ferma Tutorial Lesson 5: Modeling Solenoids & Toroidal Coils
- EM.Ferma Tutorial Lesson 6: Analyzing Permanent Magnets
- EM.Ferma Tutorial Lesson 7: Analyzing A Microstrip Transmission Line
- EM.Ferma Tutorial Lesson 8: Modeling 2D Coplanar Waveguide Structures

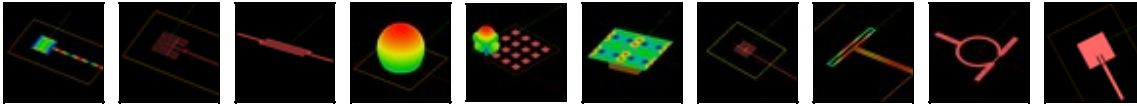


EM.Picasso Manual

EM.Picasso Tutorial Lessons

- EM.Picasso Tutorial Lesson 1: Analyzing A Microstrip-Fed Patch Antenna
- EM.Picasso Tutorial Lesson 2: Designing A Patch Antenna With A Recessed Feed
- EM.Picasso Tutorial Lesson 3: Analyzing A Planar Microstrip Band-Stop Filter
- EM.Picasso Tutorial Lesson 4: Designing A Circularly Polarized Probe-Fed Patch Antenna
- EM.Picasso Tutorial Lesson 5: Analyzing Patch Antenna Arrays
- EM.Picasso Tutorial Lesson 6: Analyzing A Periodic Frequency Selective Surface
- EM.Picasso Tutorial Lesson 7: Designing A Slot-Coupled Patch Antenna
- EM.Picasso Tutorial Lesson 8: Analyzing A CPW-Fed Folded Dipole Slot Antenna

- EM.Picasso Tutorial Lesson 9: Designing a Microstrip Wilkinson Power Divider
- EM.Picasso Tutorial Lesson 10: Optimizing A Microstrip Patch Antenna Design



EM.Libera Manual

EM.Libera Tutorial Lessons

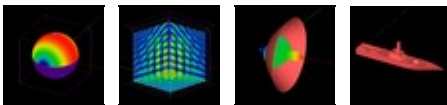
- EM.Libera Tutorial Lesson 1: Analyzing A Center-Fed Wire Dipole Antenna
- EM.Libera Tutorial Lesson 2: Designing A Yagi-Uda Dipole Array
- EM.Libera Tutorial Lesson 3: Computing The Radar Cross Section Of Metallic, Dielectric & Composite Targets



EM.Illumina Manual

EM.Illumina Tutorial Lessons

- EM.Illumina Tutorial Lesson 1: Analyzing The Scattering From Metal Targets
- EM.Illumina Tutorial Lesson 2: Computing The Radar Cross Section Of Corner Reflectors
- EM.Illumina Tutorial Lesson 3: Computing The Radiation Pattern Of Parabolic Dish Reflectors
- EM.Illumina Tutorial Lesson 4: Simulating Radiation In The Presence Of Large Metallic Shipboard Platforms



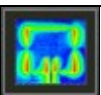
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