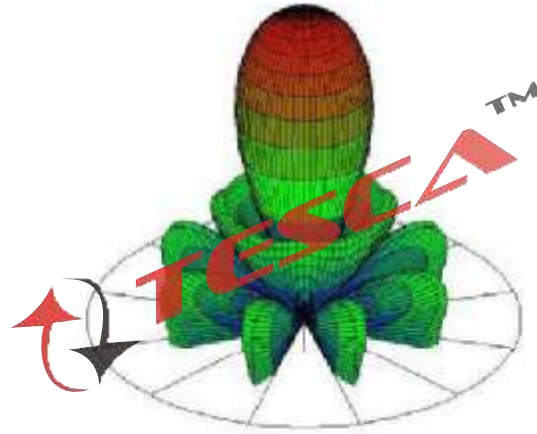


PCAAD 5.0 is the newest version of the most popular general purpose antenna modeling software.

PCAAD 5.0 is a Windows-compatible antenna analysis, modeling, and design software package. It contains more than 40 separate routines treating wire antennas, aperture antennas, microstrip antennas, arrays, and transmission lines and waveguides. These routines are integrated into a menu-driven, user-friendly system allowing you to quickly evaluate impedance and patterns for a wide variety of antenna types. Some of the new features in Version 5.0 include the following:

- 3-D color pattern plots
- Impedance matching with Smith chart
- Analysis of circular planar arrays
- V-dipole antenna analysis
- Wire loop antenna analysis
- Log periodic dipole array analysis
- More general wire antenna geometries
- Ability to copy graphs to Windows clipboard
- Improved error checking
- Movable labels on pattern and Smith plots
- Improved plot resizing
- Color settings can be saved
- All wire geometries can be viewed in 3-D
- Plotting of E/H or E-theta/E-phi patterns
- Improvements to user interface
- Antenna Short Course included on CD



PCAAD's antenna analysis and design capabilities are listed below . . .

Array Antennas

- Uniform linear array patterns
- Linear subarray patterns
- Uniform rectangular array patterns
- Uniform circular array Patterns
- Arbitrary planar array patterns
- Infinite printed dipole array
- Grating lobe diagram

Linear array pattern synthesis

Aperture Antennas

- Line source patterns
- E-plane sectoral horn patterns
- H-plane sectoral horn patterns
- Pyramidal horn patterns
- Corrugated pyramidal horn patterns
- Conical horn patterns
- Corrugated conical horn patterns
- Parabolic reflector (approximate)
- Parabolic reflector (patterns)

Wire Antennas

- Dipole antenna analysis .
- RCS of wire dipole
- V-dipole antenna analysis analysis
- Loop antenna analysis analysis
- Yagi array analysis
- Finite dipole array analysis
- Log-periodic dipole array design

Log-periodic dipole array analysis

Transmission

- Microstrip line analysis and design
- Covered microstrip line analysis
- Stripline analysis and design
- Coaxial line analysis
- Rectangular waveguide analysis
- Circular waveguide analysis
- Surface waves analysis
- Print current

Microstrip Antennas

- Rectangular probe-fed patch
- Rectangular line-fed patch analysis
- Rectangular proximity-fed patch
- Rectangular aperture coupled patch
- Circular probe-fed patch analysis

General wire antenna analysis

Lines Plotting

- Polar pattern plot
- Rectangular pattern plot
- 3-D pattern plot
- Smith chart plot
- VSWR/Return Loss plot

Other

- Copy current graph to clipboard
- Window contents
- Set plot colors Edit file Online help for PCAAAD 5.0

PCAAD 5.0 is intended for use by engineers, students, and researchers who need quick solutions to common antenna design and analysis problems. If your work involves antennas, you will find PCAAAD 5.0 to be invaluable.

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,
Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,
Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com
Website: www.tesca.in

