Fast Finite Difference Time Domain Methods

Scope: Development of Fast FDTD methods for Electromagnetic field computations within large enclosures.

FDTD codes developed for

- One dimensional Wave Propagation in Plasma (Dispersive) medium by JE convolution method.
- Laguerre Polynomial based FDTD formulation for Plane wave propagation in 1D.
- 3D FDTD formulation for closed rectangular cavity.
- Meshless Radial Point Interpolation method for wave propagation in 1D.