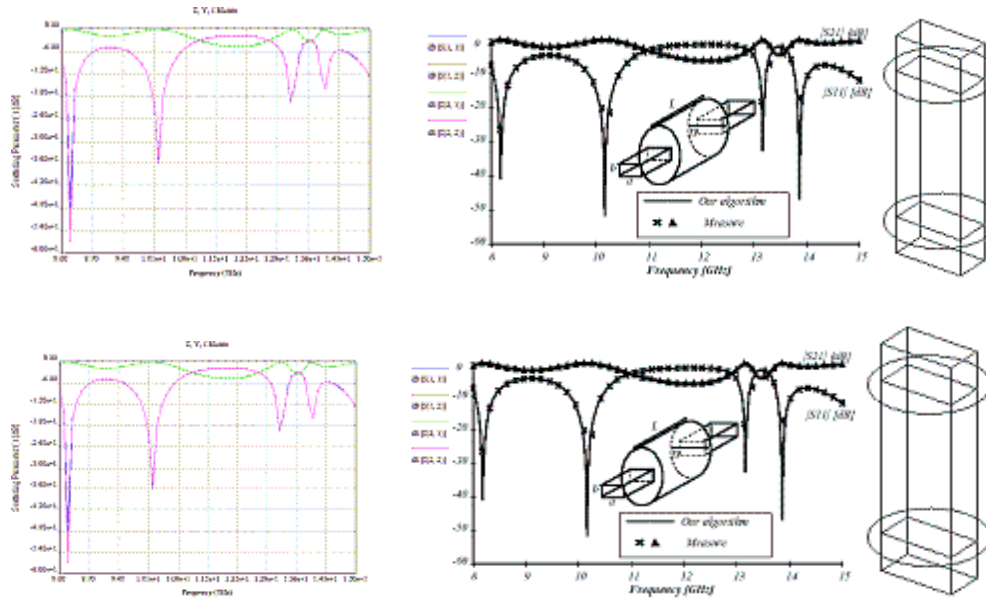
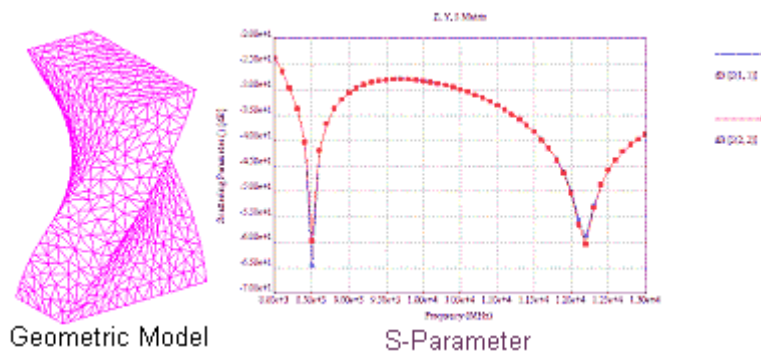


### Example 26: Circular Cavity Fed by Two WR75 Waveguides

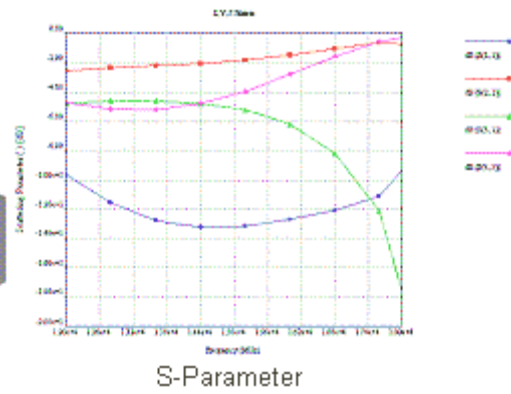
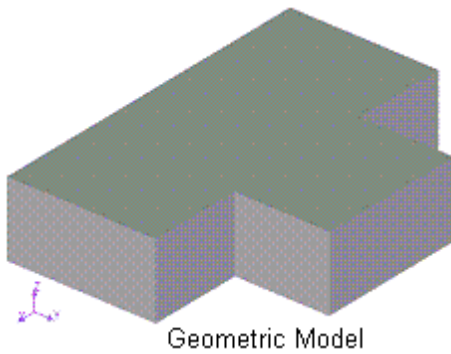
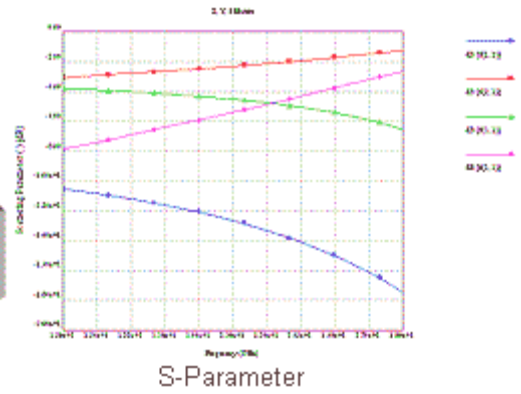
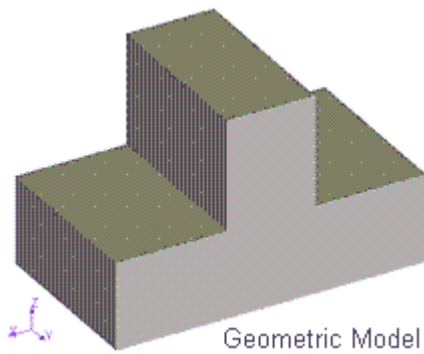


### Example 27: 90 Degree Twisted Waveguide



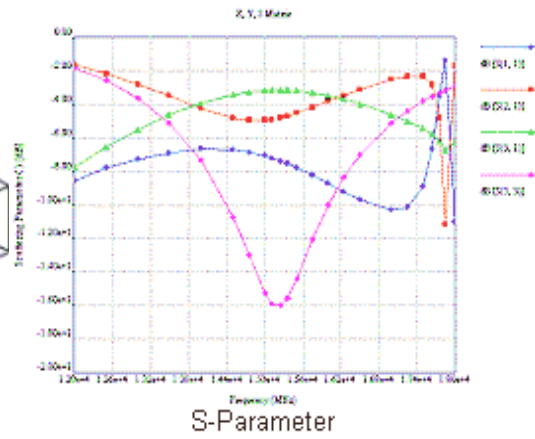
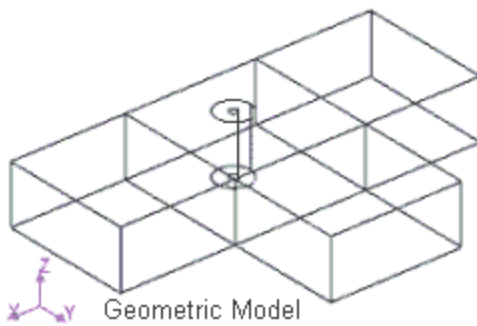
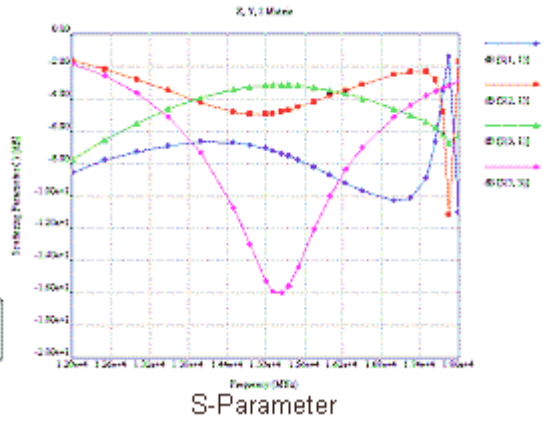
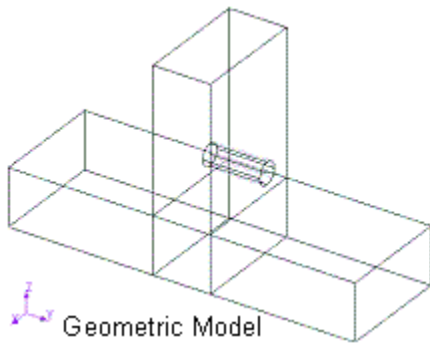


### Example 28: Rectangular T-Junction





### Example 29: T-Type Waveguide with Post

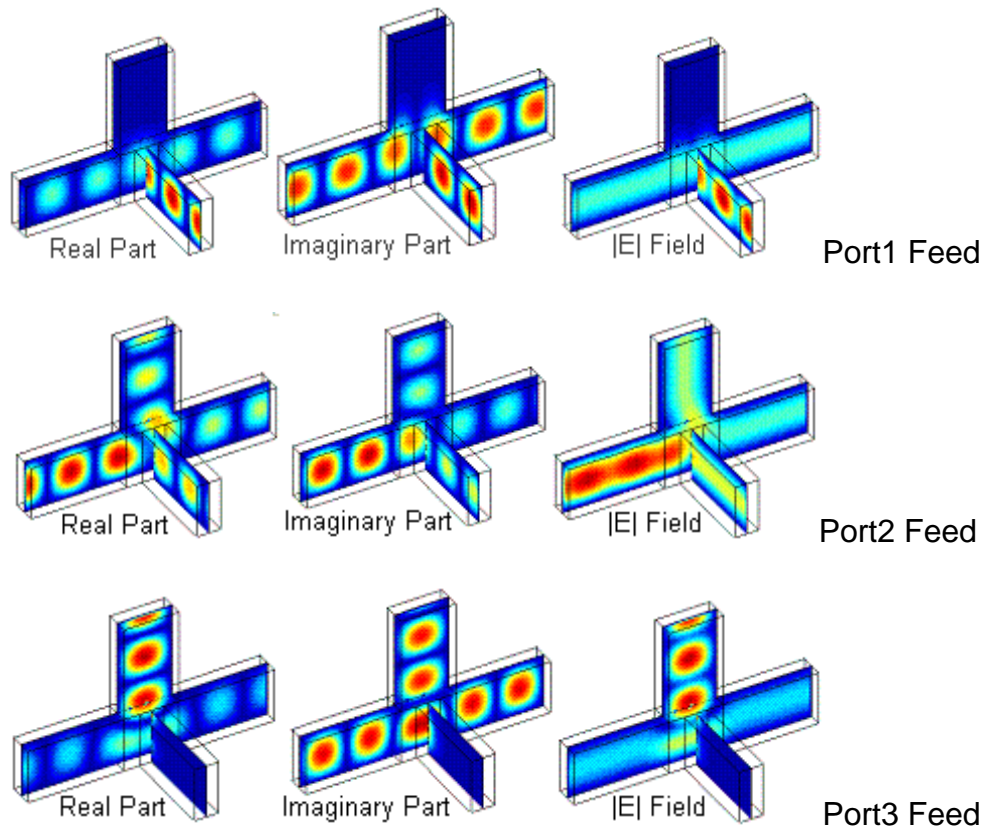
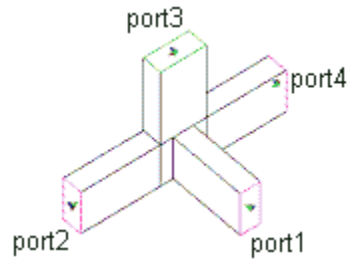




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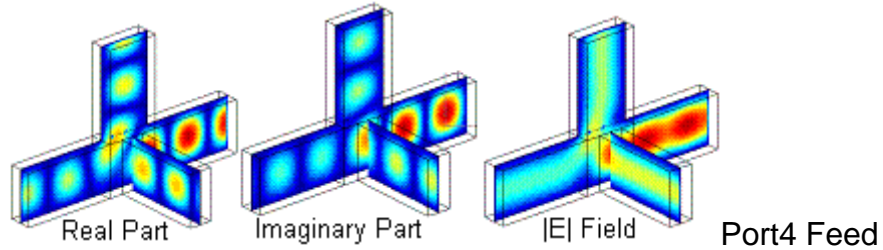
### Example 30: Magic-T Junction





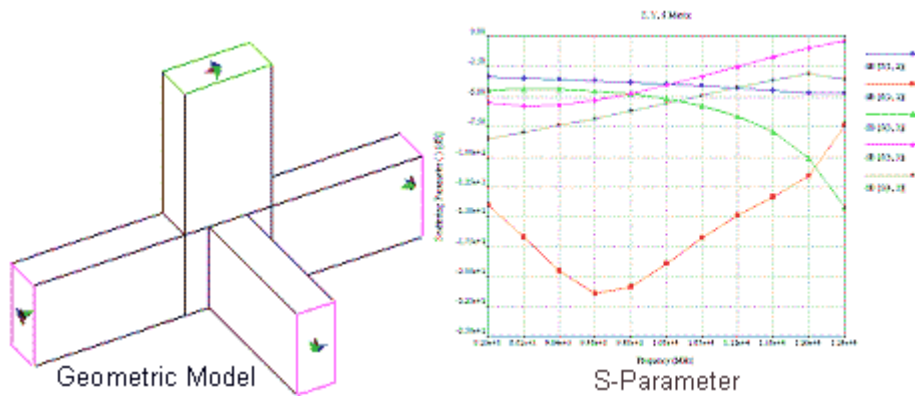
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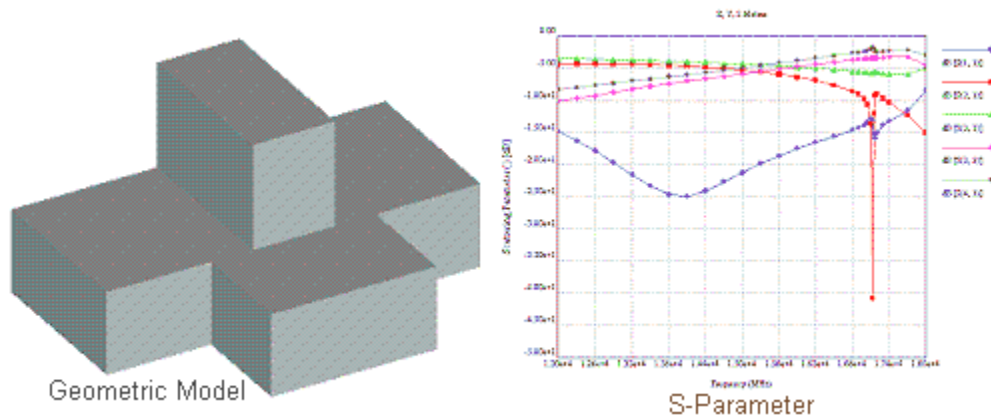


For the port2 feed and the port3 feed, the fields and the transmission coefficients and reflection coefficients are symmetric.

WR90\_MagicTJunction\_SYZ[8\_13GHz].dbs



IEEEMTT94Feb\_p256\_MagicTJuncWR62\_SYZ.dbs

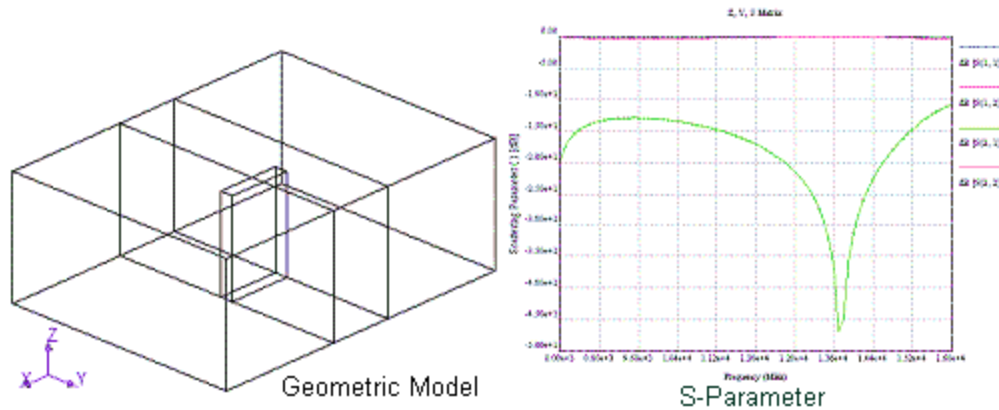




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### Example 31: Rectangular Ridge Waveguide

The database file: IEEEMTT88Dec\_p1825\_RidgeRectWG\_SYZ.dbs



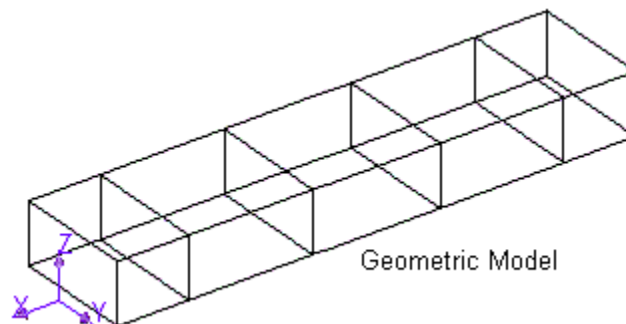
### Example 32: Rectangular Dielectric Resonator Waveguide

The database files:

IEEEMTT97May\_p814\_DielRectWG\_SYZ.dbs

IEEEMTT97May\_p814\_DielRectWG\_SYZ\_betterMesh.dbs

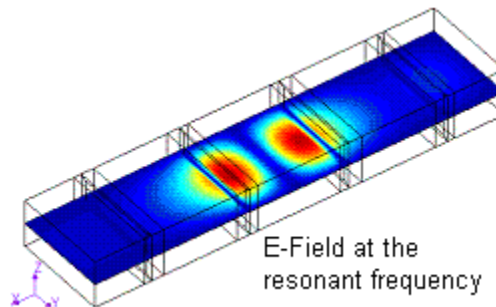
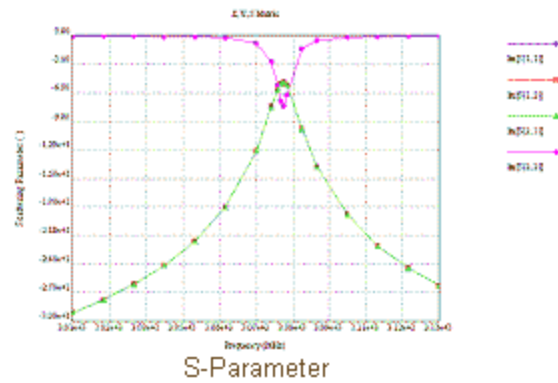
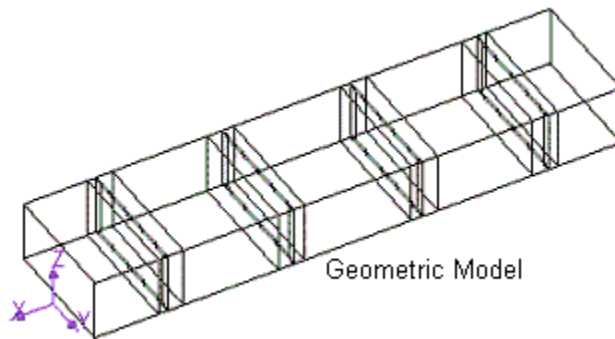
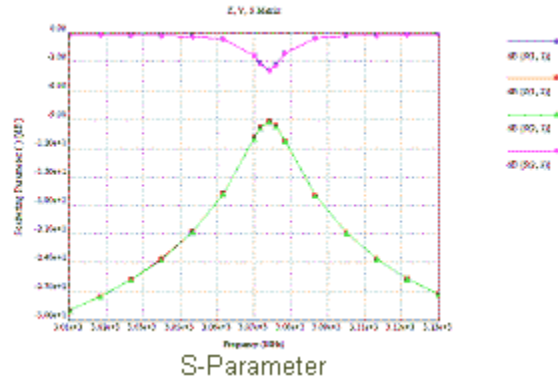
IEEEMTT97May\_p814\_DielRectWG\_rad[3o08GHz].dbs





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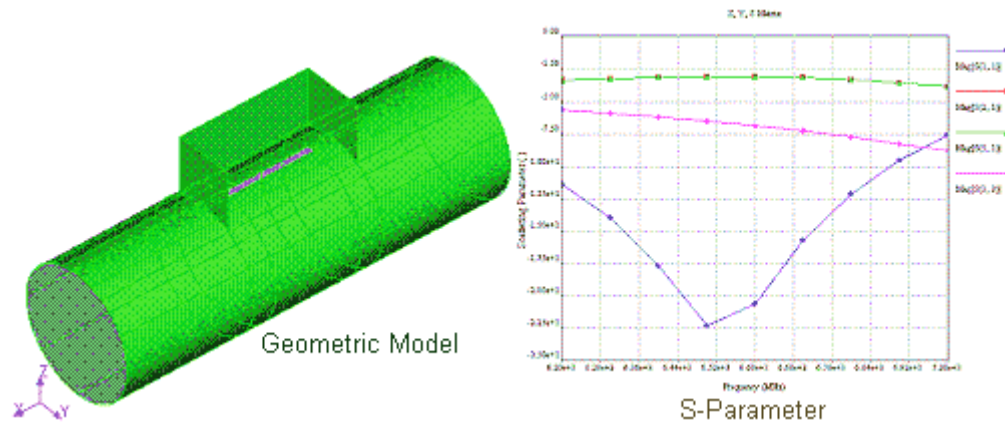
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### Example 33: Circular-Rectangular T-Junction Waveguide

The database file: IEEEMTT98Aug\_p1173\_CircularRectangular\_TJunction\_SYZ.dbs

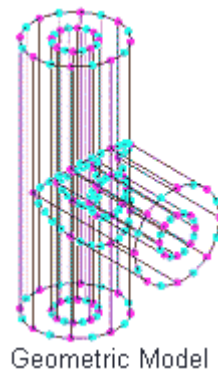


### Example 34: Coaxial T-Junction

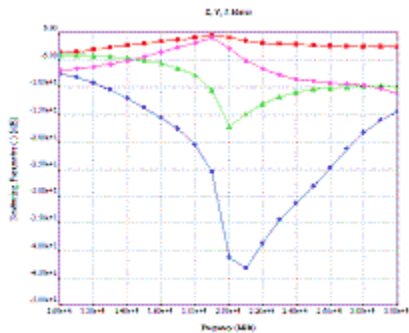
The database files:

CoaxialTJunction\_SYZ[10\_30GHz]\_50modes.dbs

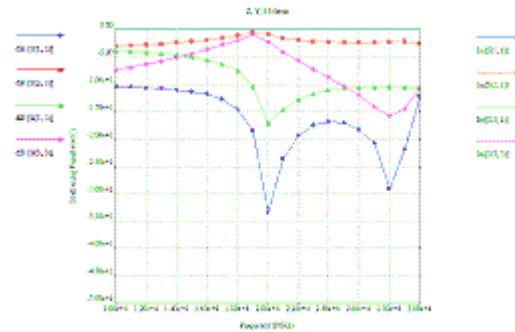
CoaxialTJunction\_SYZ[10\_30GHz]\_100modes.dbs







S-Parameter of 50 modes

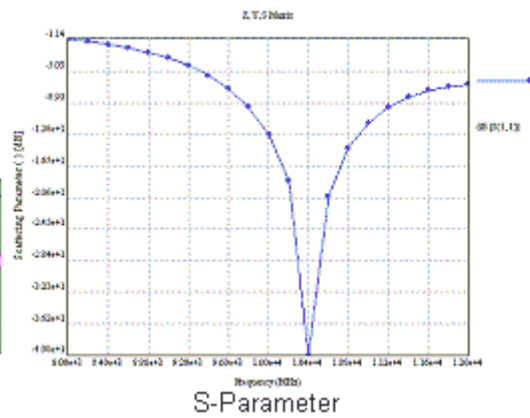
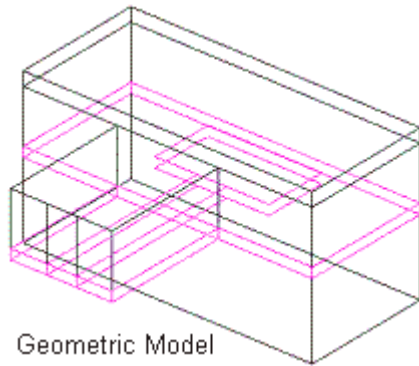


S-Parameter of 100 modes

### Example 35: Waveguide-to-Microstrip Transition

The database file:

IEEEMTT2000Jan\_p57\_WaveguideMicrostripTranstion\_SYZ[8\_12GHz]\_WGfeed.dbs

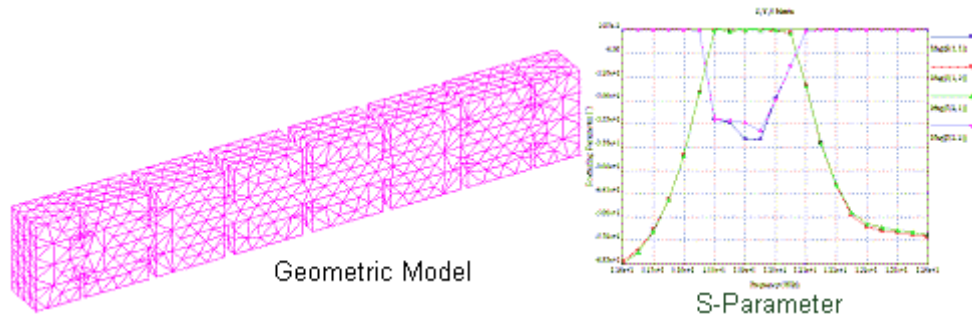




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### Example 36: Rectangular Waveguide Filter

The database file: IEEEEMTT97May\_p856\_waveguidefilter\_SYZ.dbs.



### Example 37: Waveguide Two-Slot Directional Coupler

The database file: waveguidedirectionalcoupler\_SYZ.dbs.

