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

Geometric Model

S-Parameter

Geometric Model

S-Parameter
Example 30: Magic-T Junction
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
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[3008GHz].dbs
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
Example 35: Waveguide-to-Microstrip Transition

The database file:
IEEEMTT2000Jan_p57_WaveguideMicrostripTransition_SYZ[8_12GHz]_WGfeed.dbs
Example 36: Rectangular Waveguide Filter

The database file: IEEEMTT97May_p856_waveguidefilter_SYZ.dbs.

Example 37: Waveguide Two-Slot Directional Coupler

The database file: waveguidedirectionalcoupler_SYZ.dbs.