Name: APENST819V01

Type: Earth station, Receiving and Transmitting

Region(s): 123

Required Input Parameters:

Description:

Non-standard generic earth station antenna pattern described by 2 coefficients (A and B) and angle phi1. Minimum antenna gain (Gmin) is -10 dB.

gain,coefa,coefb,phi1

Validation Warnings/Errors:

| Type | Message |
|-------|--|
| Error | G(Phi1) () is less than Gmin (). G(Phi1) is too low or Phi1 is too high. |
| Error | Gmax () is less than G(Phi1) (). Gmax is too low. |
| Error | Phi1 () is out of limits [1:180]. |
| Error | CoefB () is out of limits [10:50]. |
| Error | CoefA () is out of limits [18:47]. |

Pattern Information:

Pattern is equal to the maximum antenna gain in the main-lobe range (for off-axis angles less than Phi1).

Co-Polar Component:

 $G \ = \ G_{max}$ for $0^{\circ} \le \phi < \phi_1$ $G \ = \ Max(CoefA - CoefB * log \phi, G_{min})$ for $\phi_1 \le \phi \le 180^{\circ}$

 $G_{min} = -10$