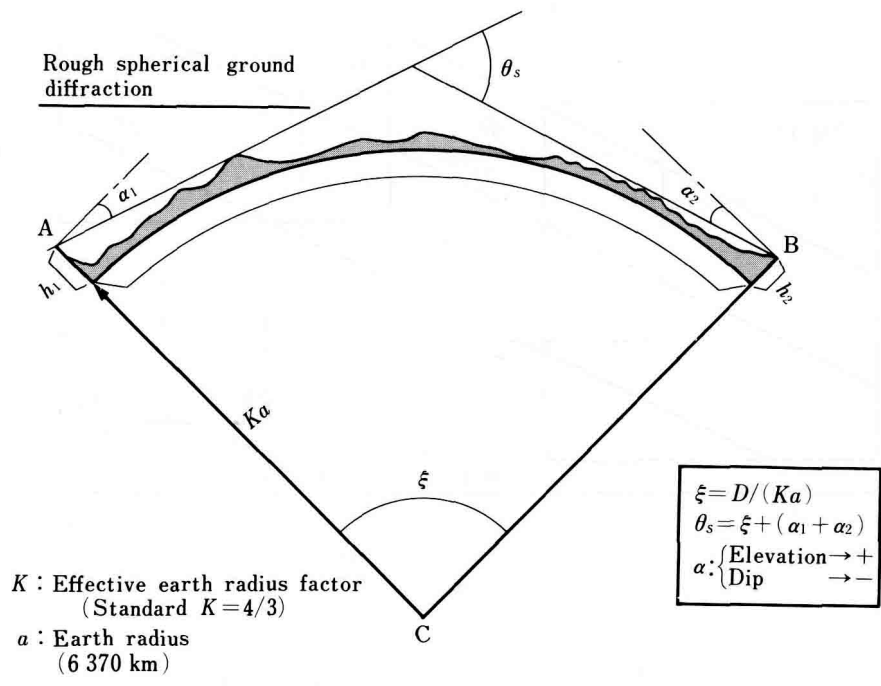
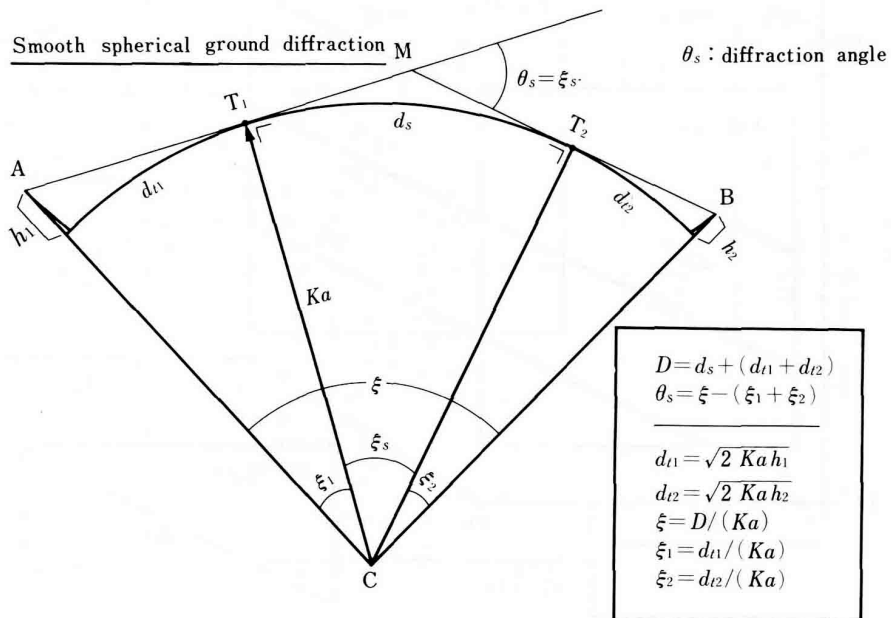
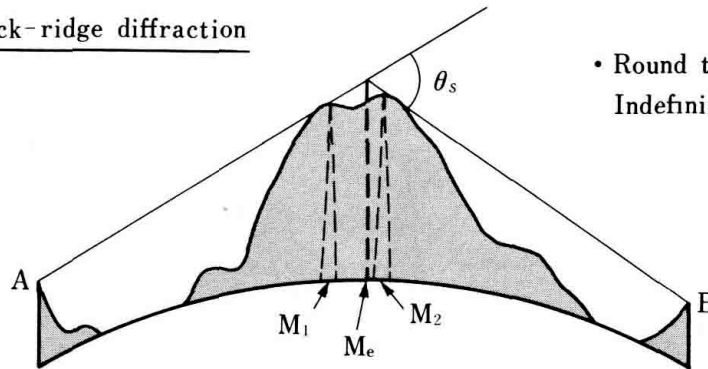


diffrazione dalla superficie terrestre



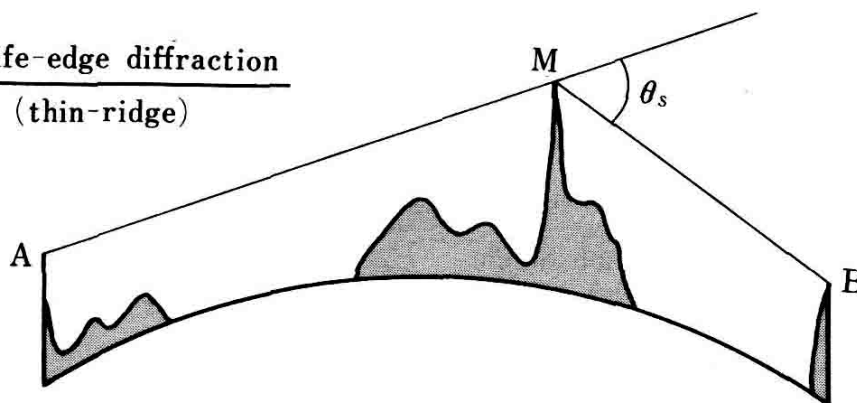
diffrazione da spigoli

Thick-ridge diffraction

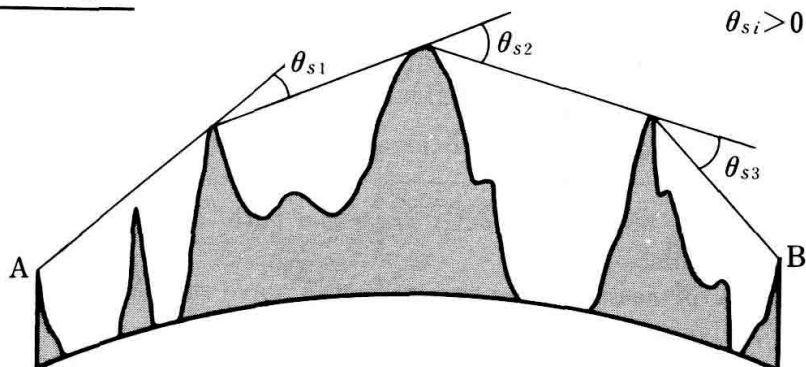


- Round type (smooth)
- Indefinite type (rough)

Knife-edge diffraction
(thin-ridge)



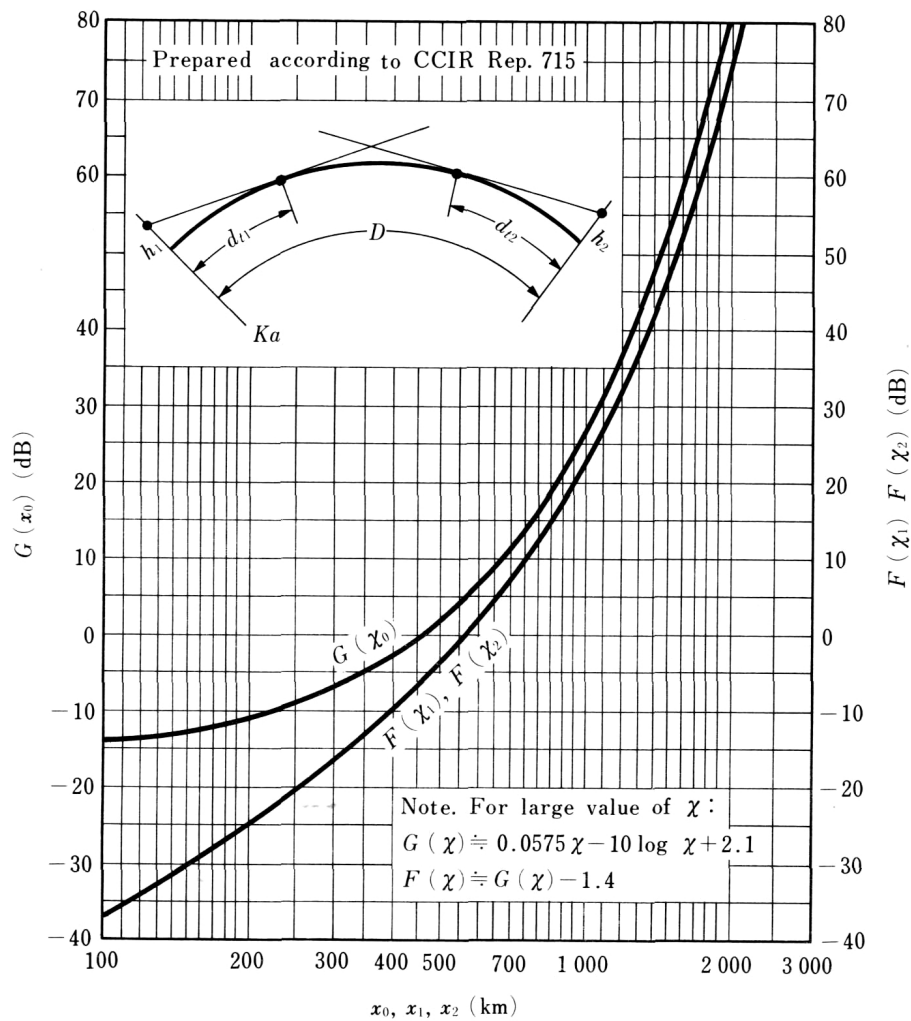
Multiridge



Ridge : Obstruction transversal to the radio path,
the width of the obstruction $\omega \gg 2r_s$ is assumed.
 r_s : First Fresnel zone radius at the ridge point

Attenuazione supplementare dovuta a diffrazione dalla superficie terrestre

$$A = G(\chi_0) - F(\chi_1) - F(\chi_2) - 20.5 \quad [\text{dB}]$$



$$\chi_0 = B D \quad [\text{km}]$$

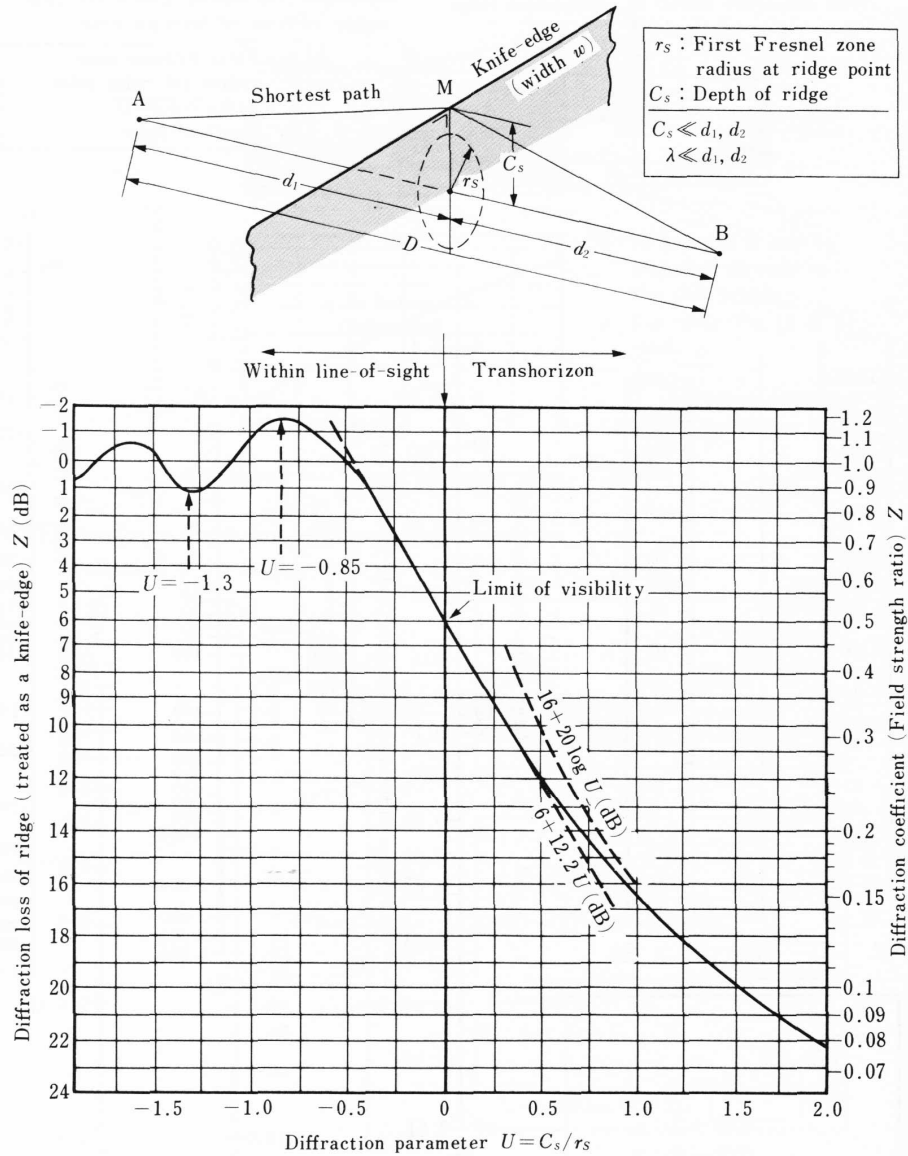
$$\chi_1 = B d_{t1} \quad [\text{km}]$$

$$\chi_2 = B d_{t2} \quad [\text{km}]$$

$$B = 1.95 \left(f_{[\text{MHz}]} / K^2 \right)^{1/3}$$

Attenuazione supplementare dovuta a diffrazione da spigolo vivo

(in vicinanza della condizione di visibilità geometrica)



Attenuazione supplementare dovuta a diffrazione da spigolo vivo

(lontano dalla condizione di visibilità geometrica)

