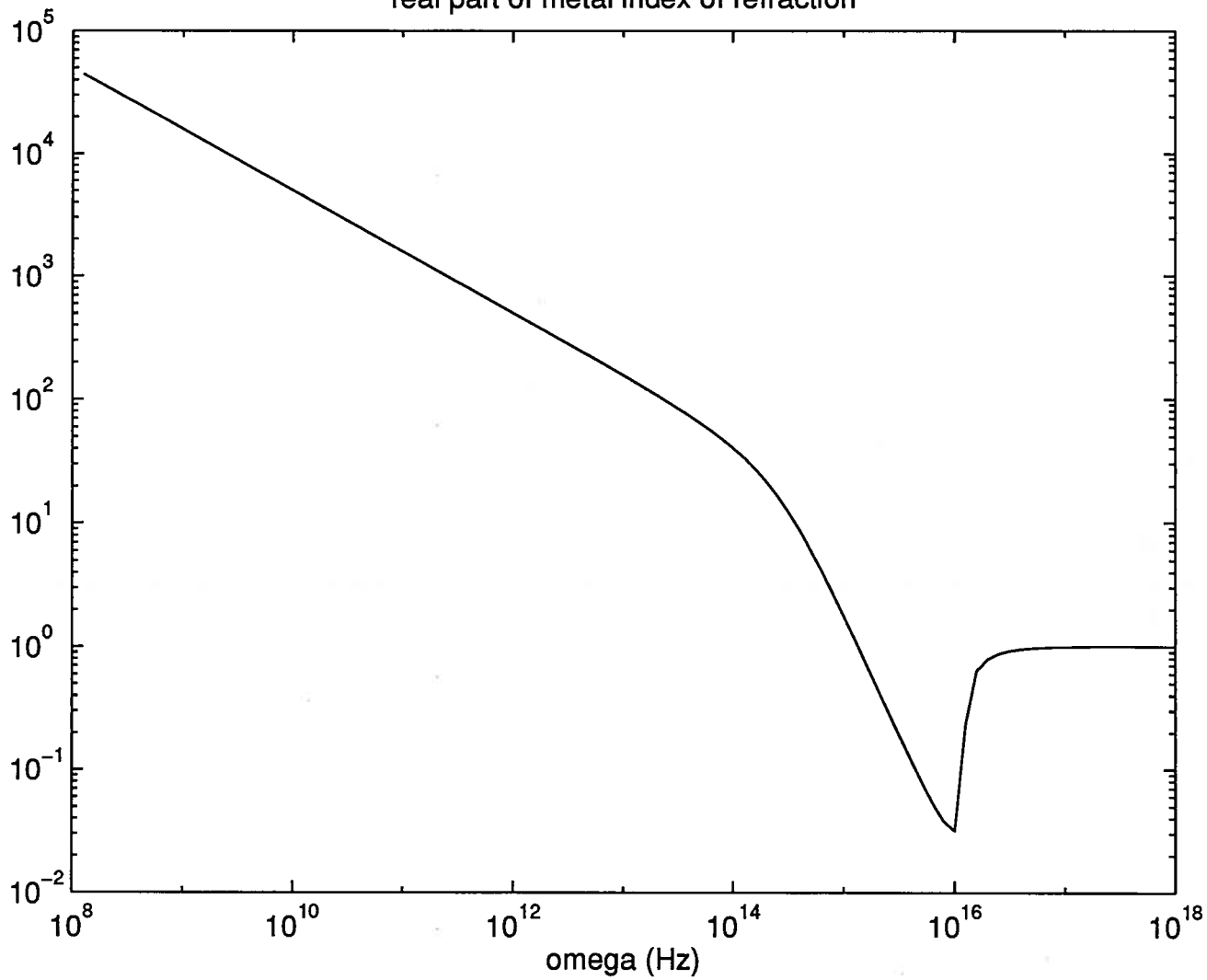


FIGURES

- Metal index of refraction
- Skin depth
- Fraction parallel energy reflected as function of incidence angle
- Fraction perpendicular energy reflected as function of incidence angle
- Fraction parallel energy transmitted as function of incidence angle
- Fraction perpendicular energy transmitted as function of incidence angle
- Fraction parallel energy reflected as function of frequency
- Fraction perpendicular energy reflected as function of frequency
- Fraction parallel energy transmitted as function of frequency
- Fraction perpendicular energy transmitted as function of frequency
- Fraction unpolarized energy reflected as function of incidence angle
- Fraction unpolarized energy reflected as function of frequency
- Fraction energy transmitted at normal incidence
- Fraction unpolarized energy transmitted as function of incidence angle and frequency (surface plots)
- Normalized sun and earth blackbody curves superposed with normal-incidence transmission factor

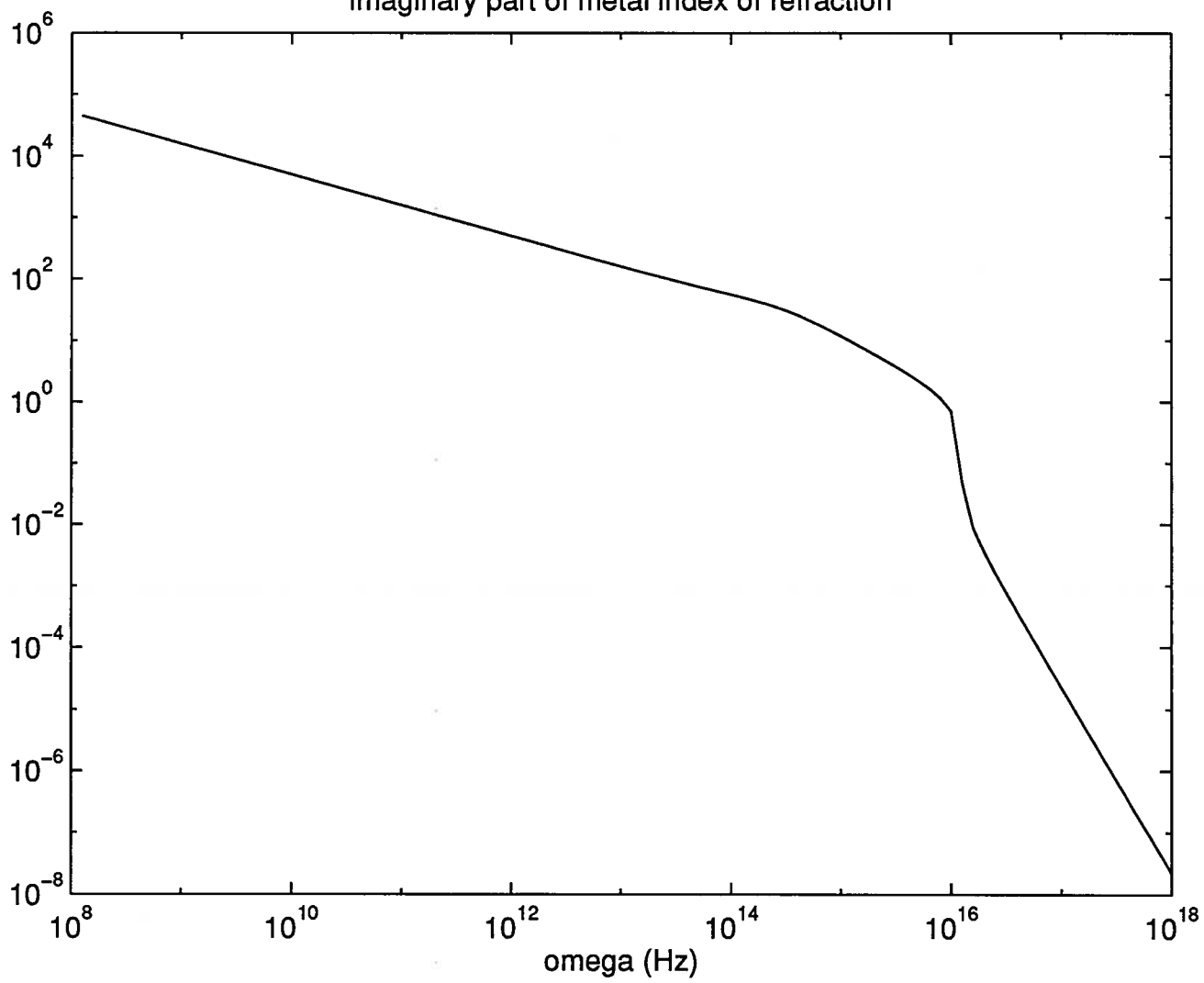
© 1998 L.L. Williams

real part of metal index of refraction

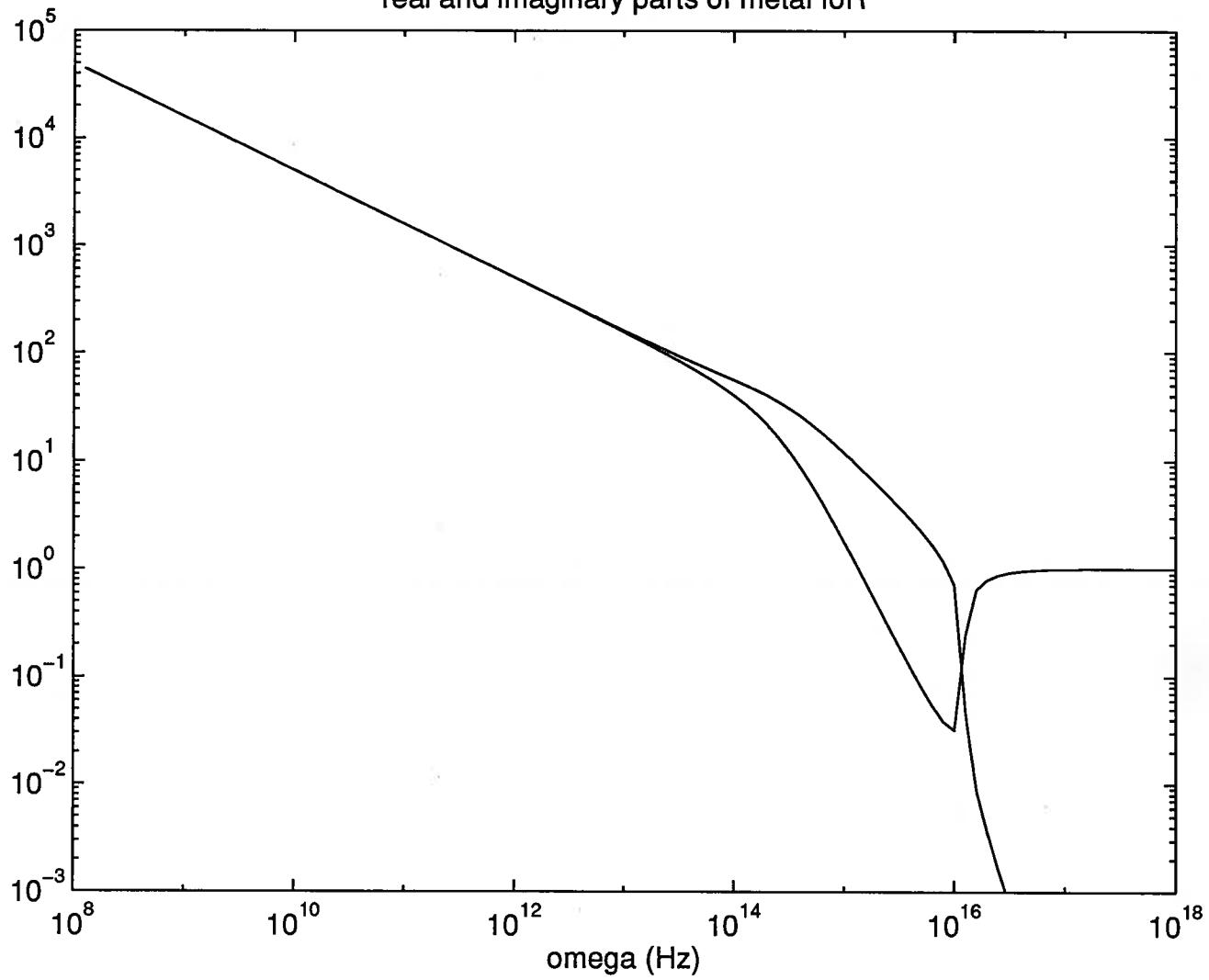


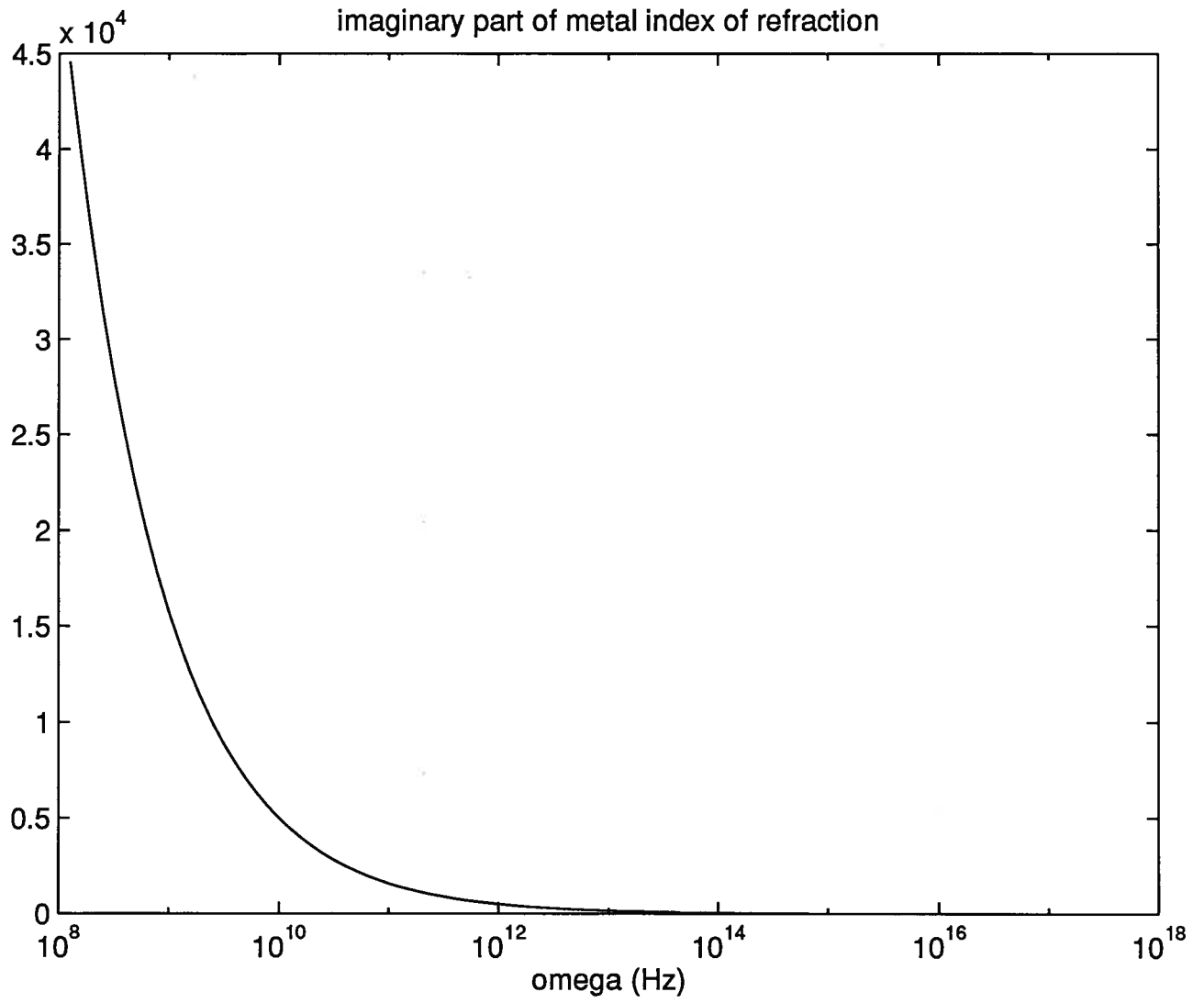
\uparrow \uparrow \uparrow
 $1/\tau$ ω_p σ/ϵ_0
(3×10^{14}) (1.2×10^{16}) (5×10^{17})

imaginary part of metal index of refraction

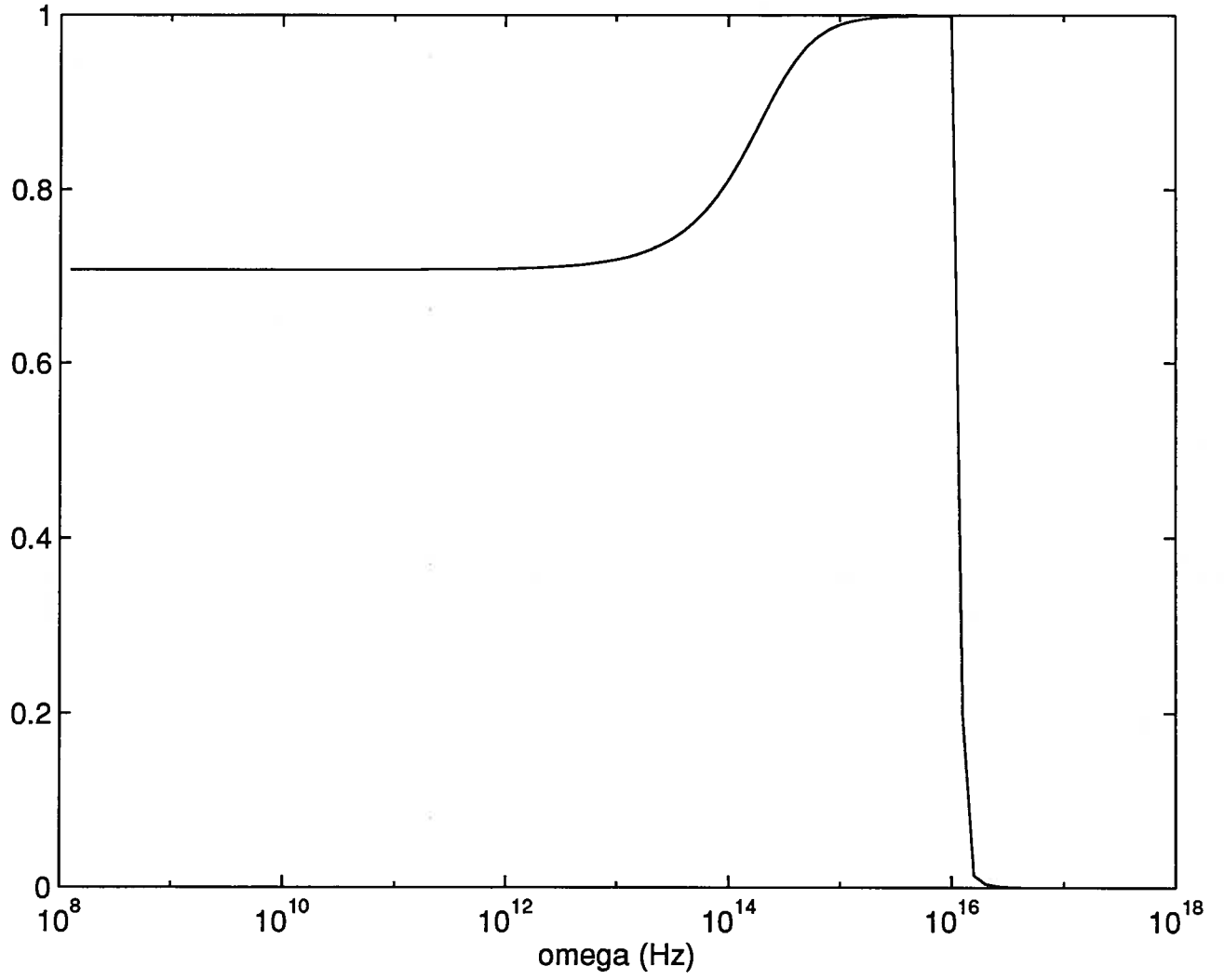


real and imaginary parts of metal IOR

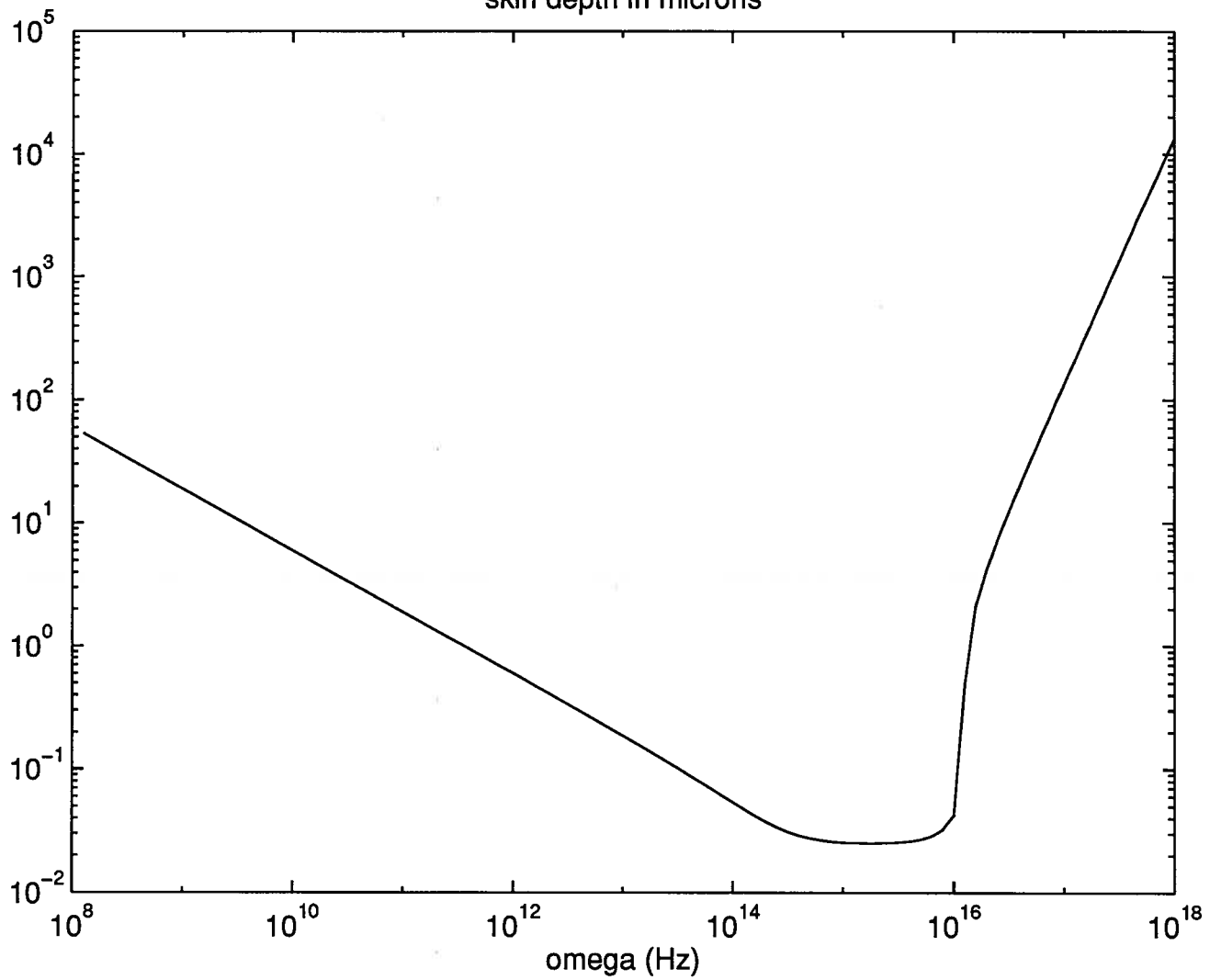


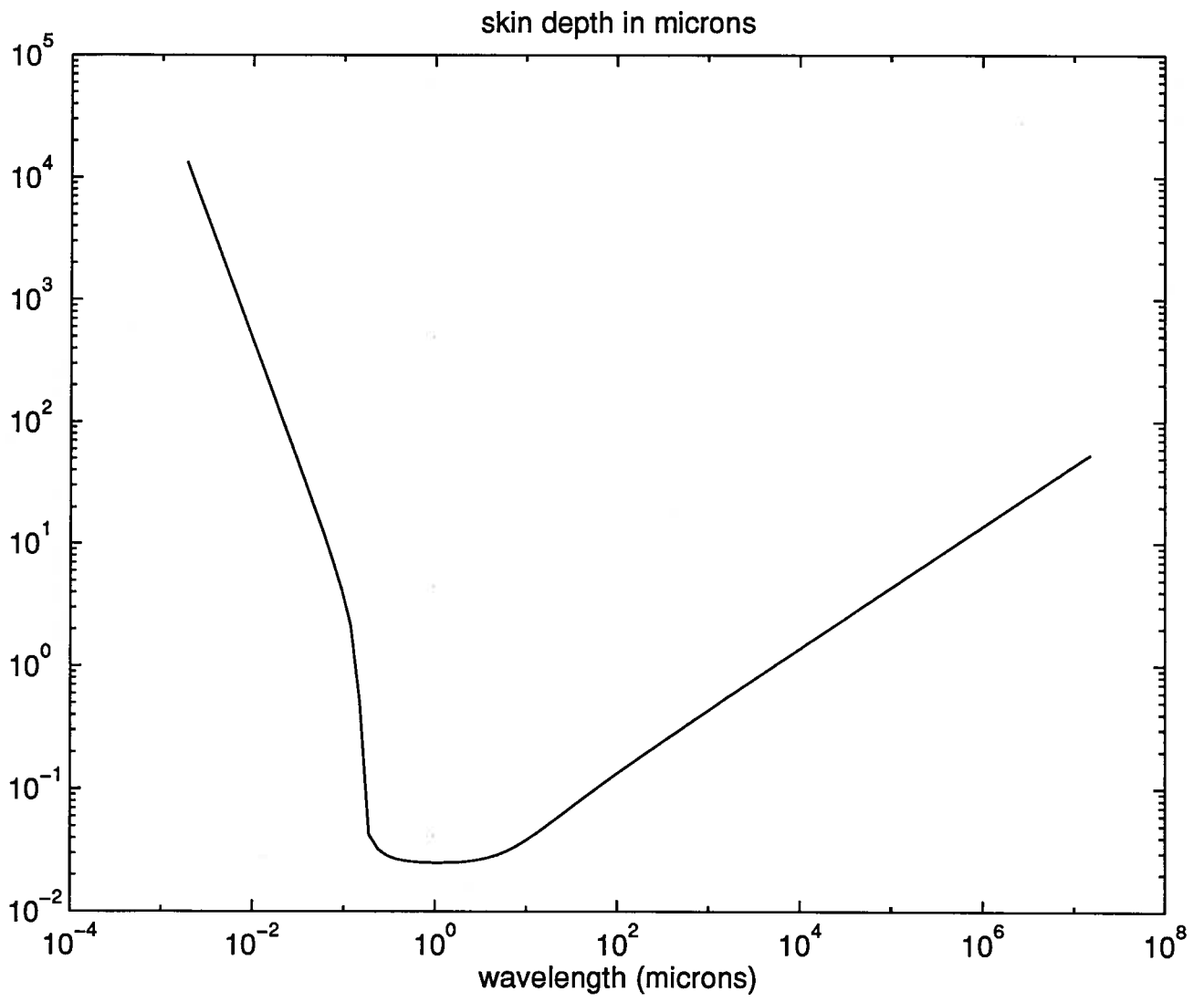


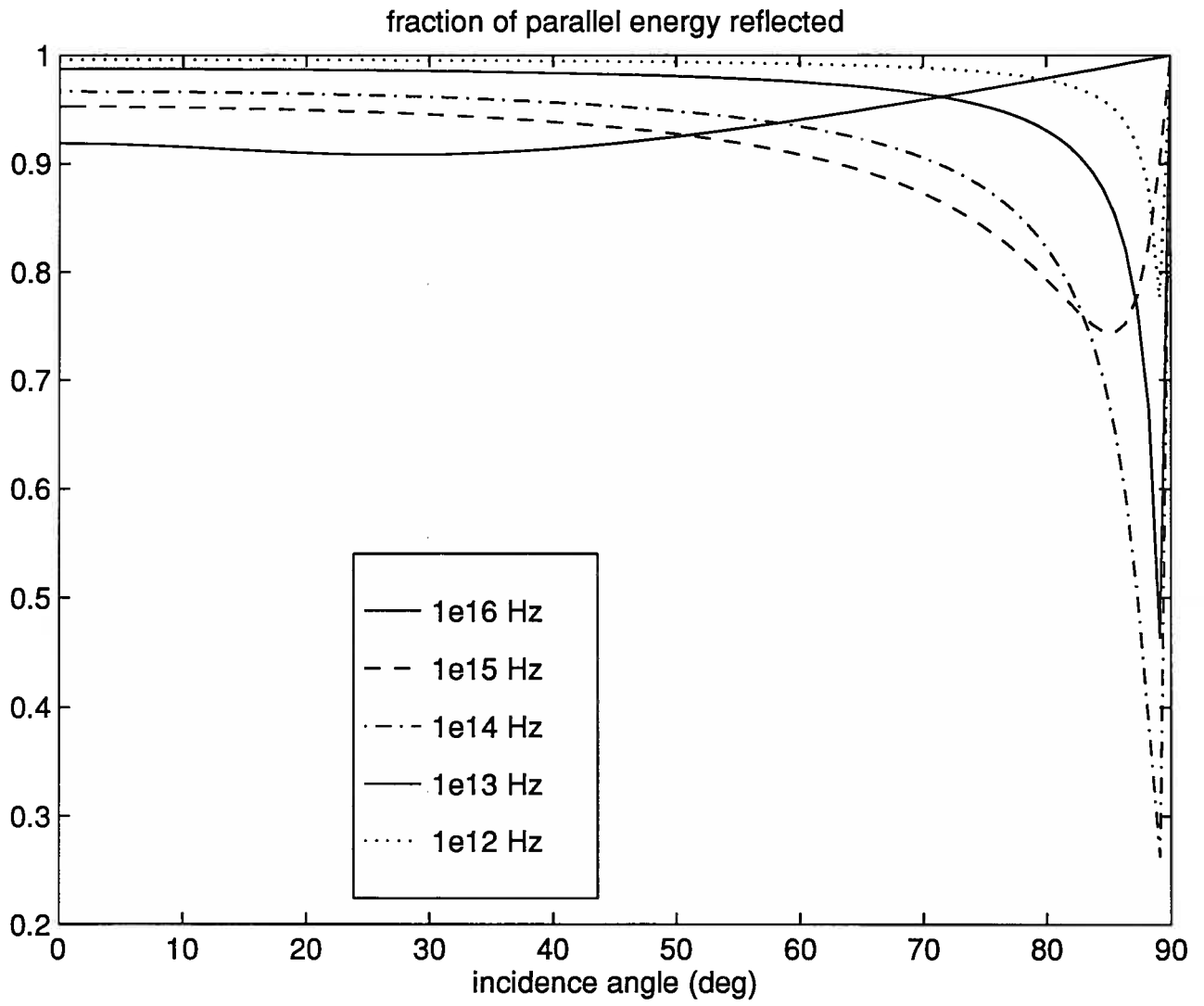
ratio of imaginary part to modulus n

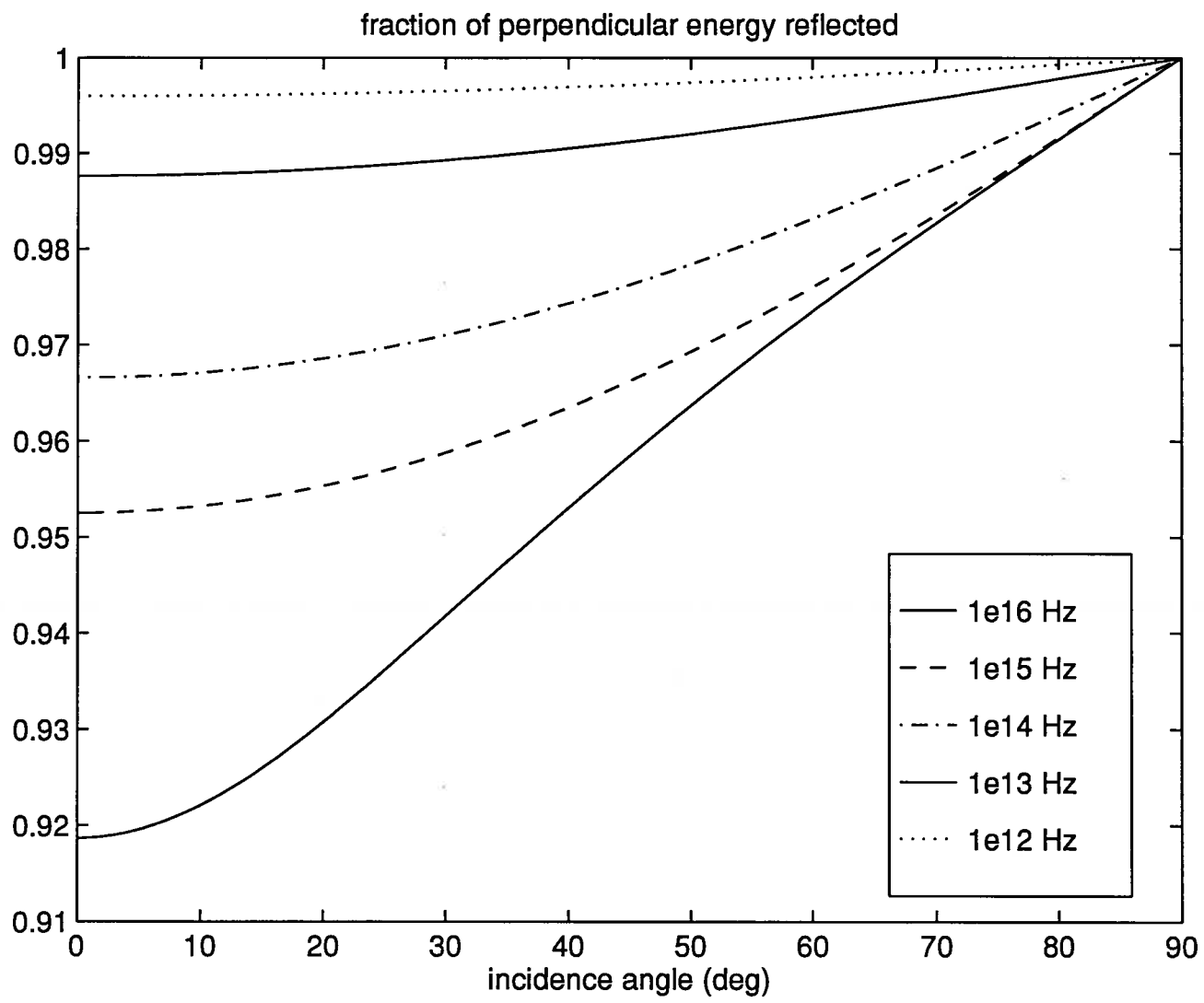


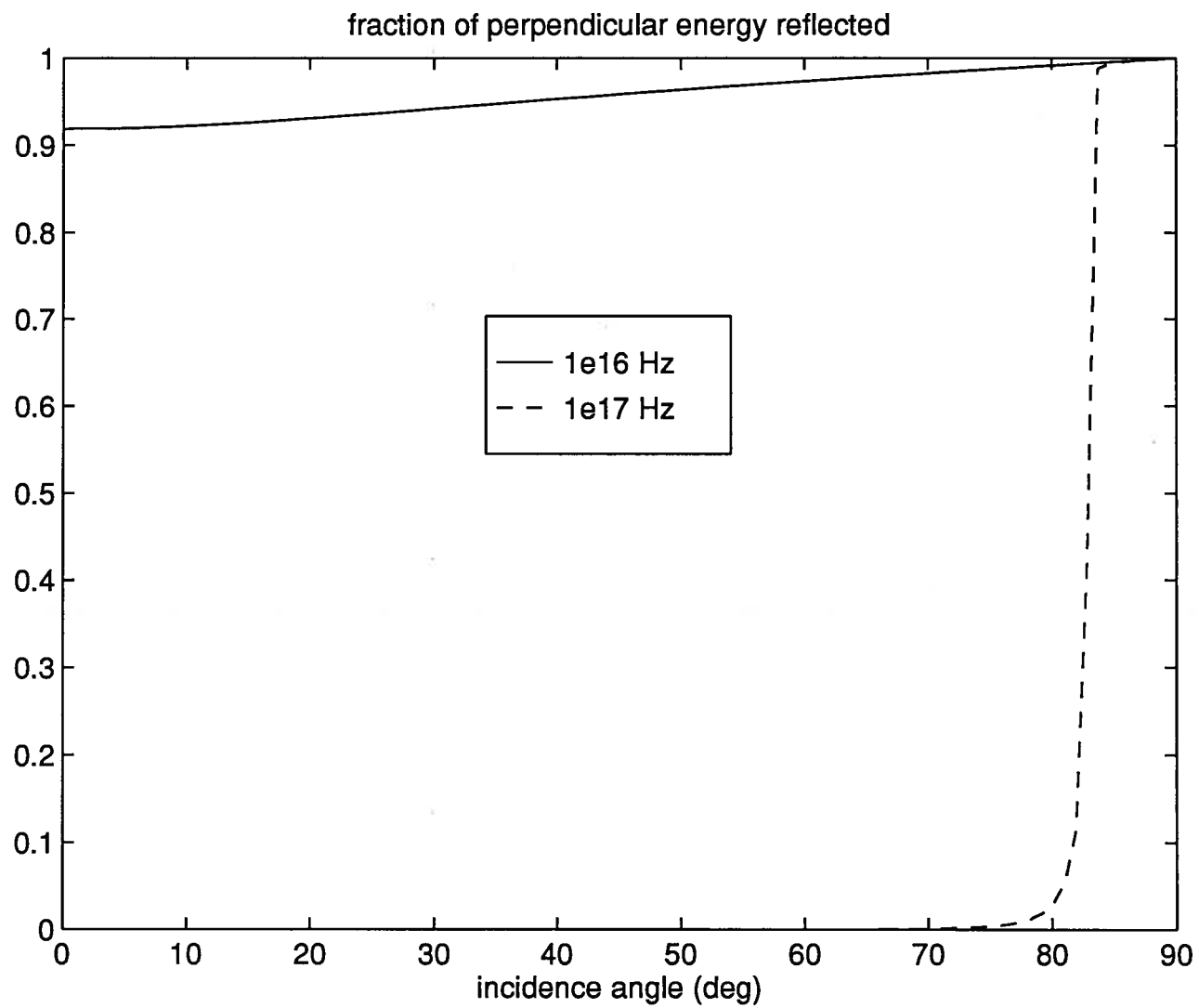
skin depth in microns



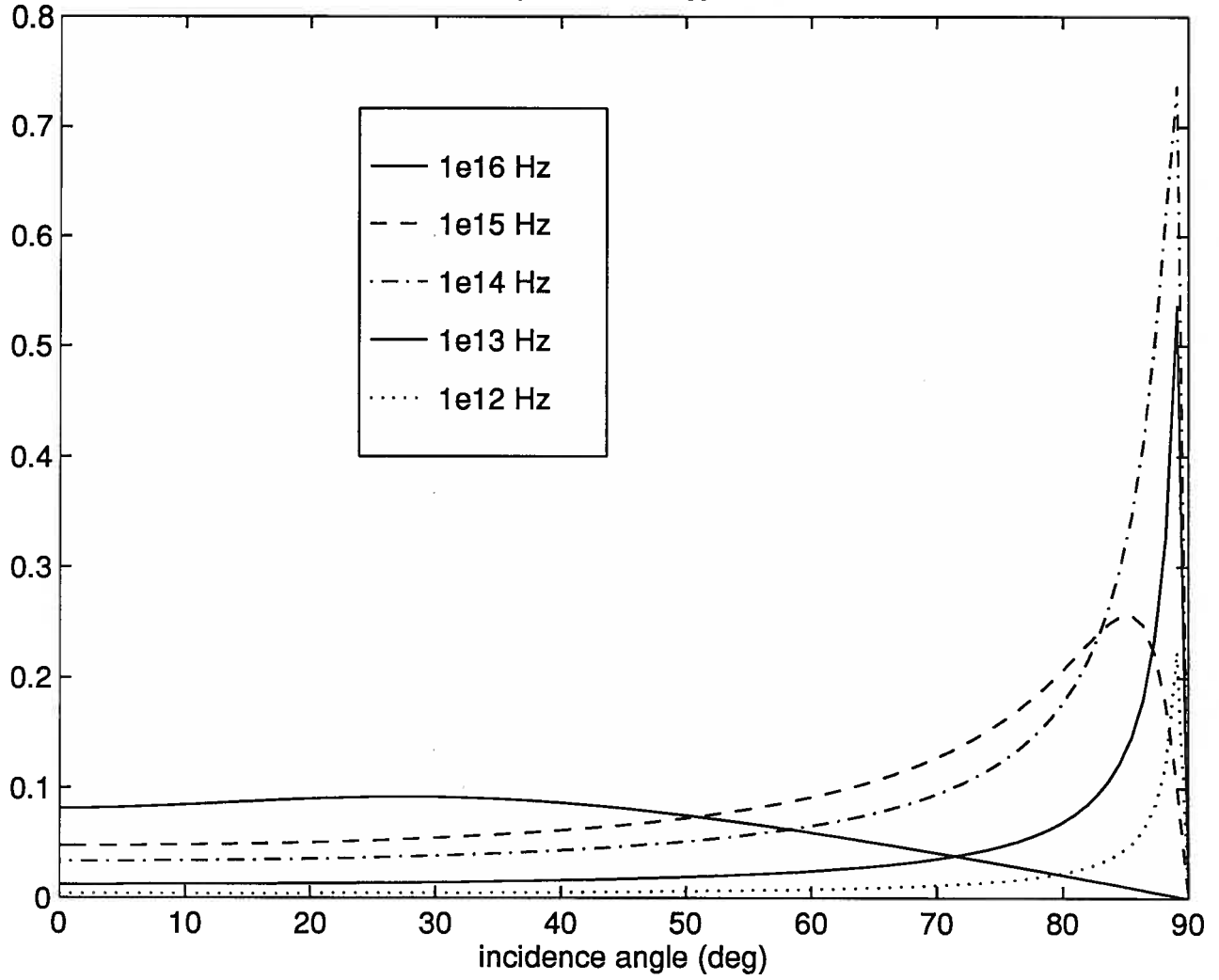




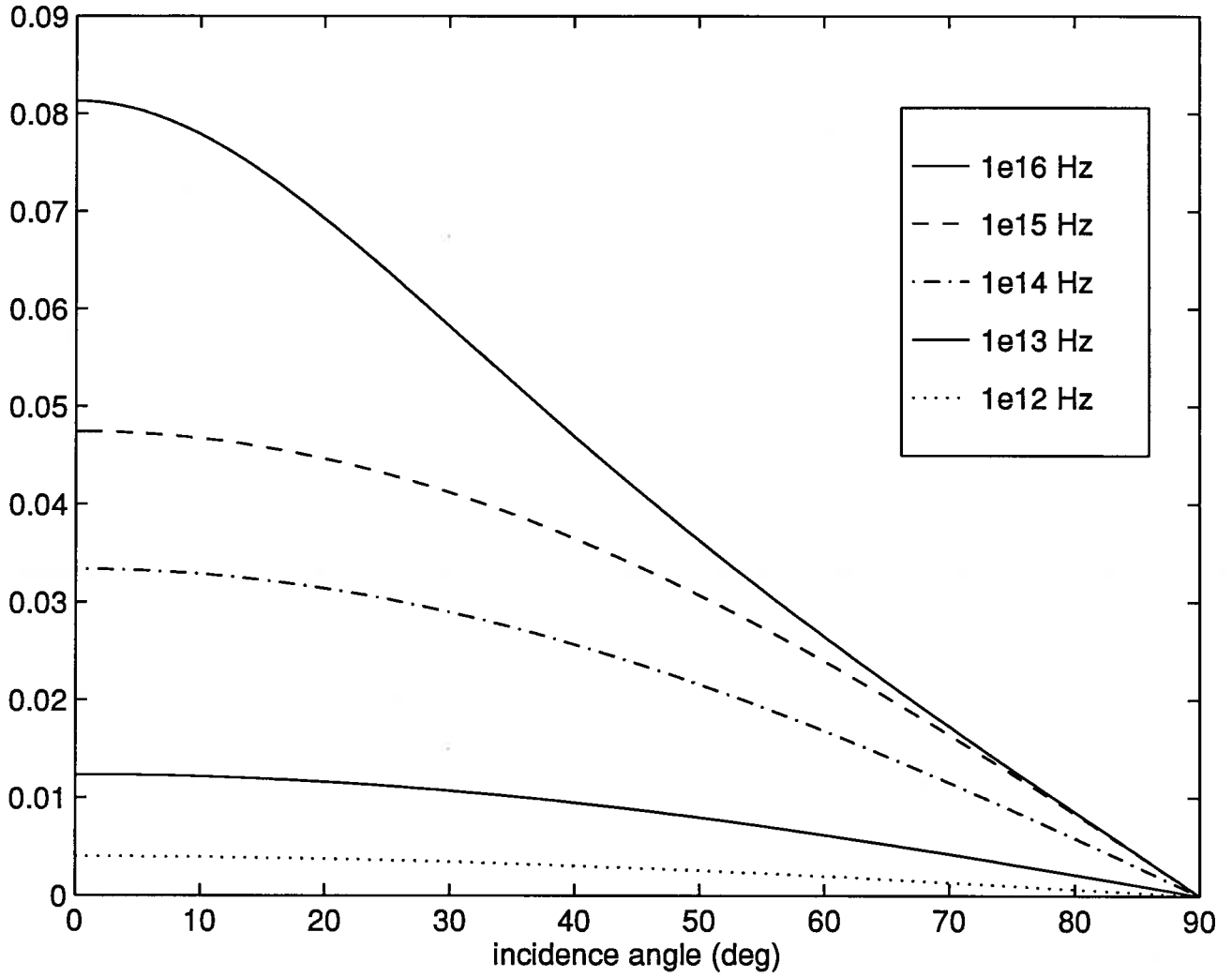


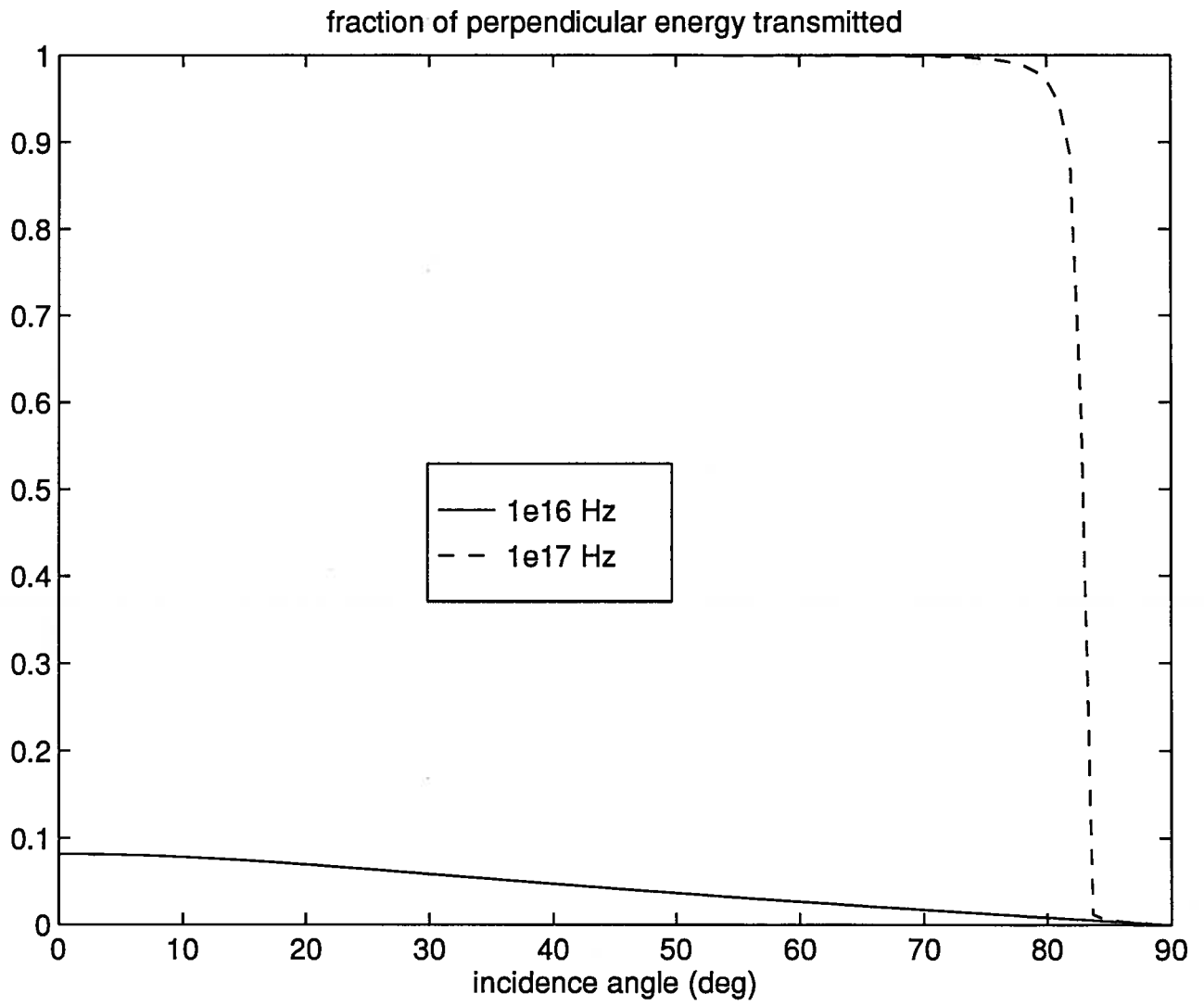


fraction of parallel energy transmitted

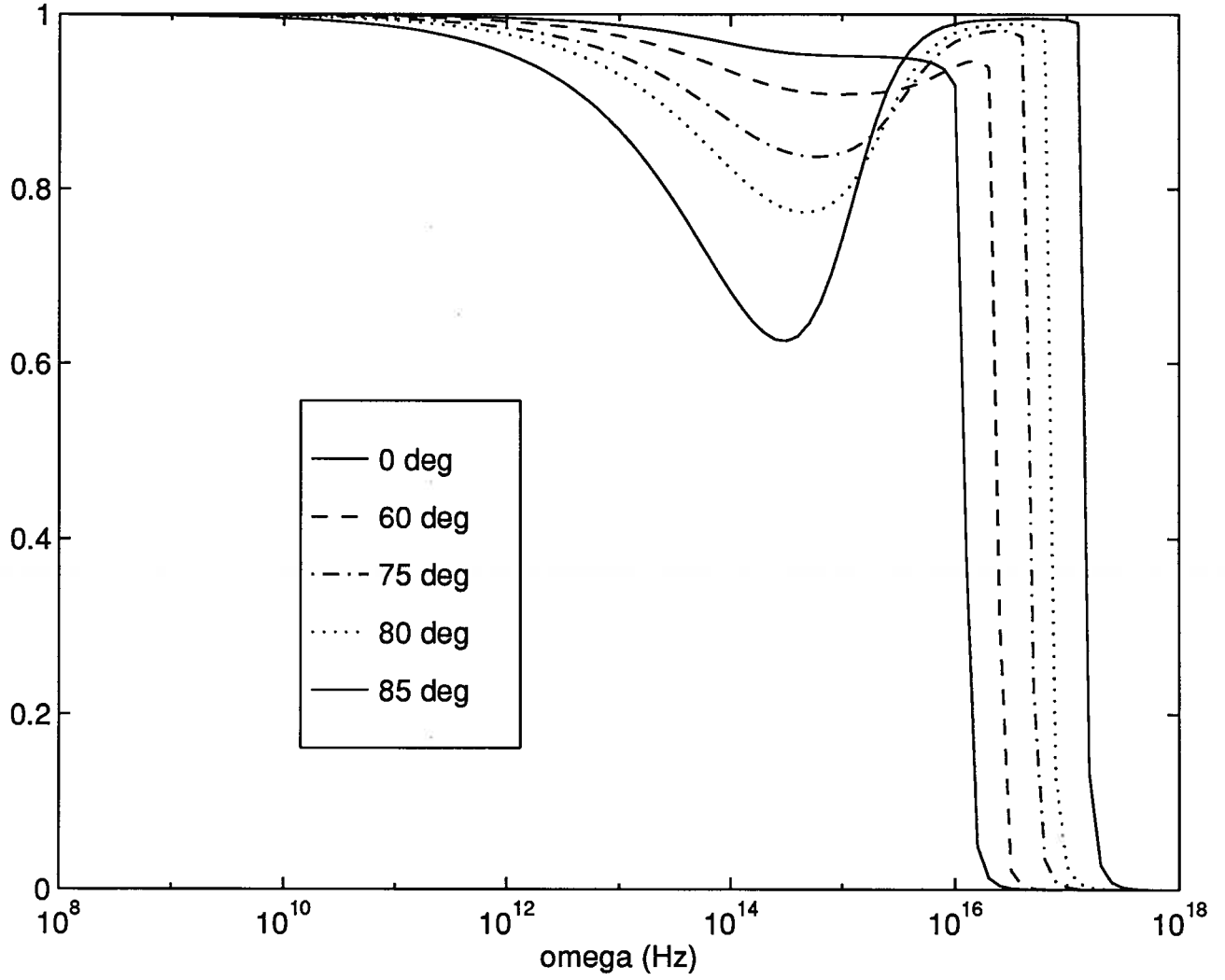


fraction of perpendicular energy transmitted

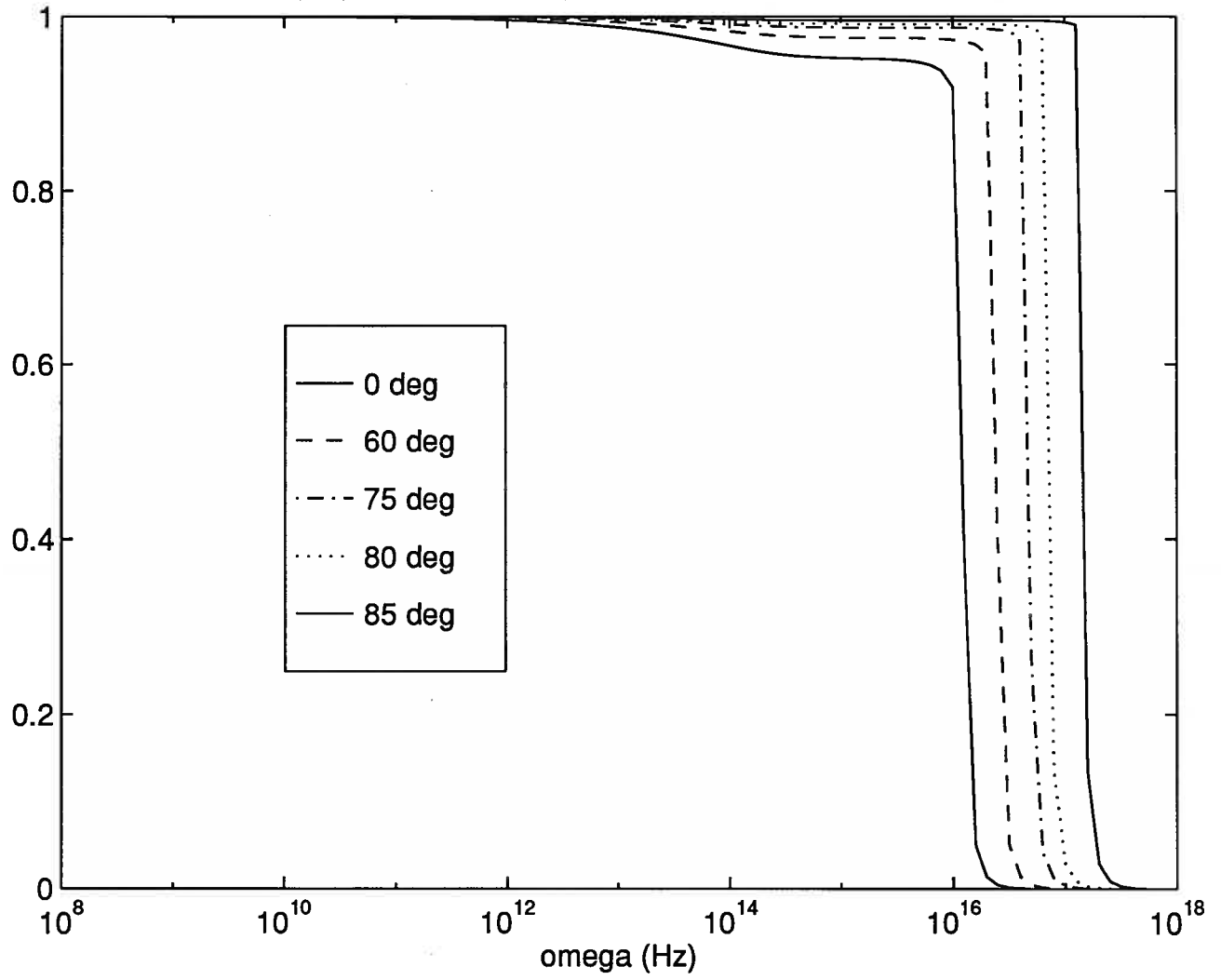




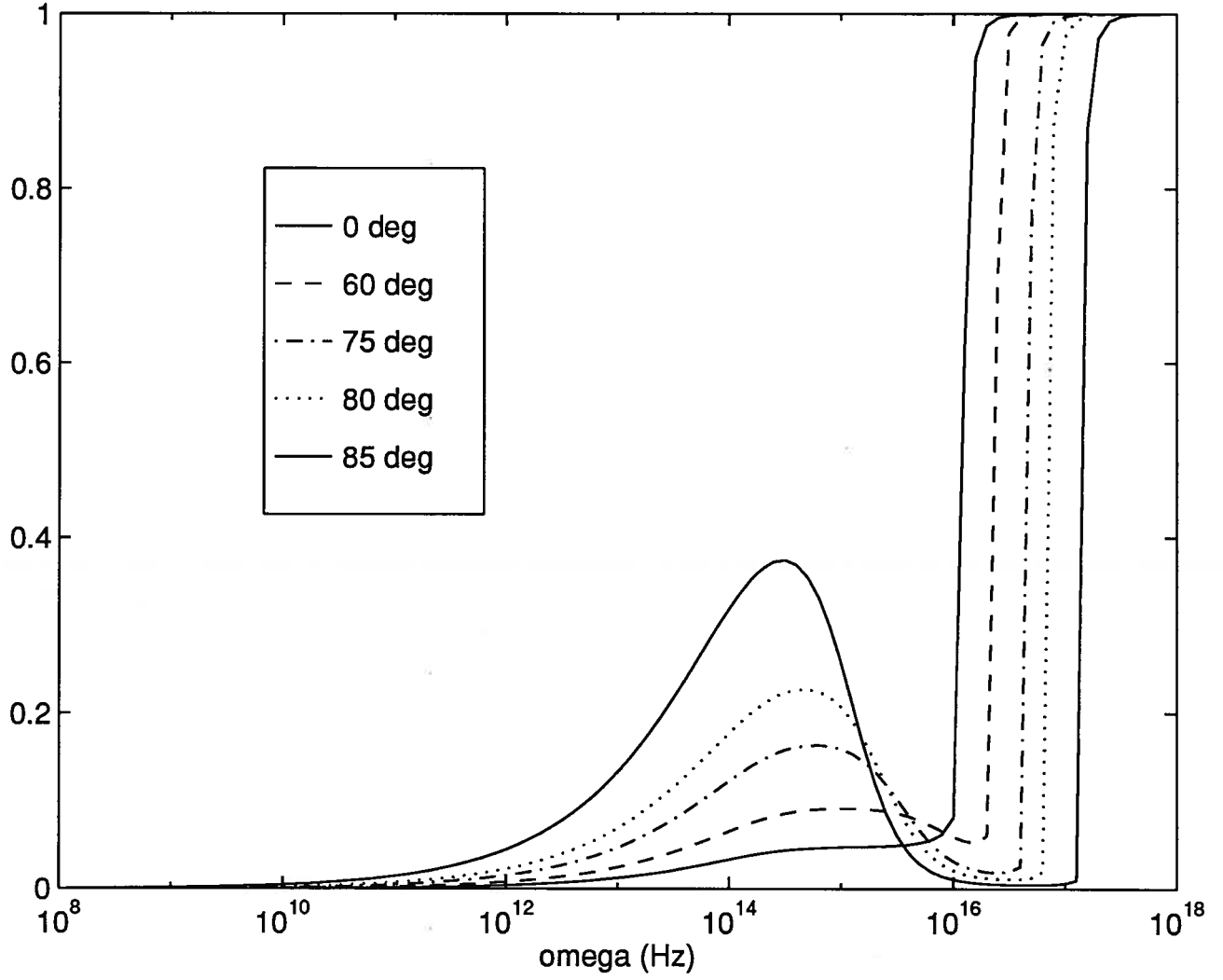
fraction of parallel energy reflected for various incidence angles



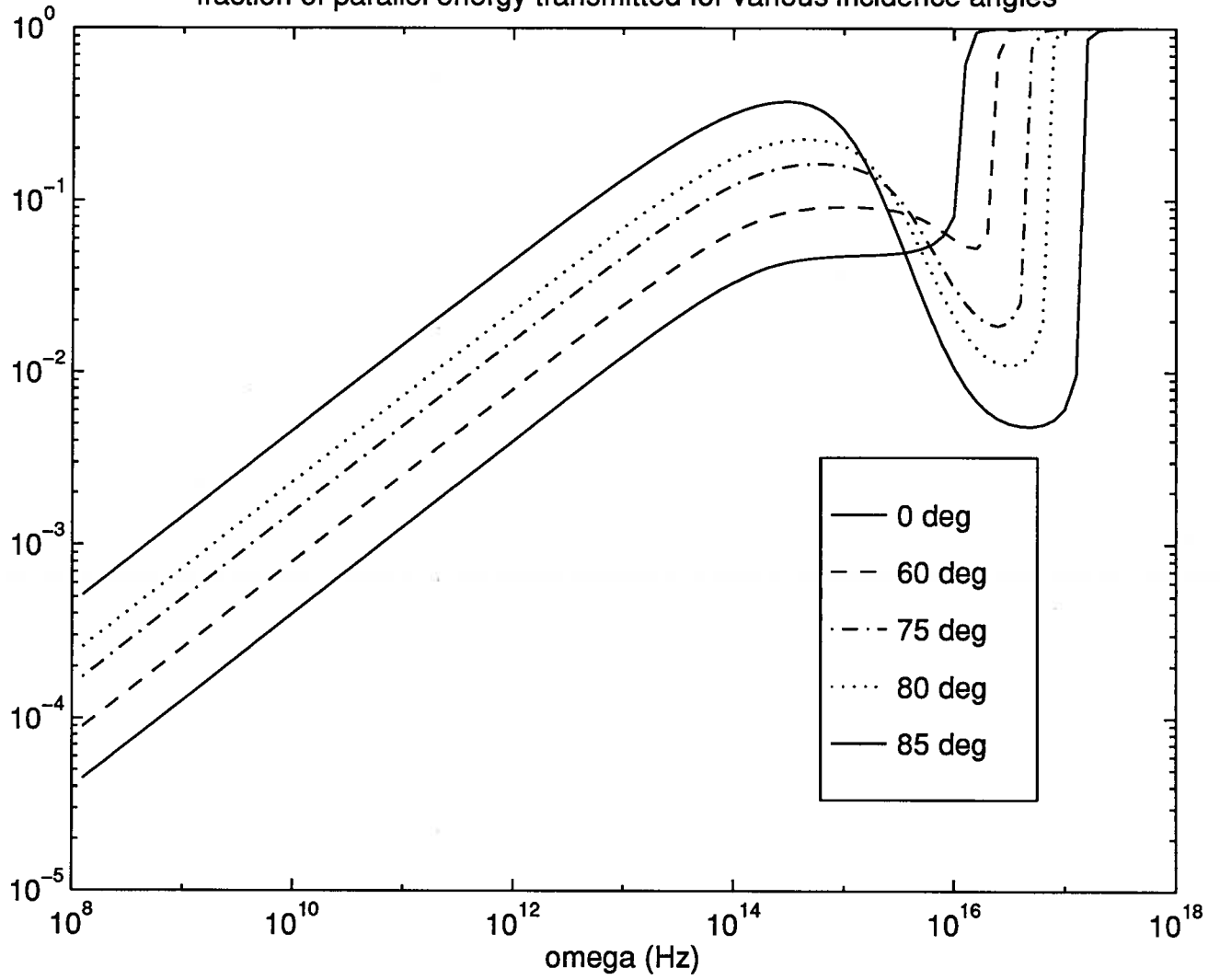
fraction of perpendicular energy reflected for various incidence angles



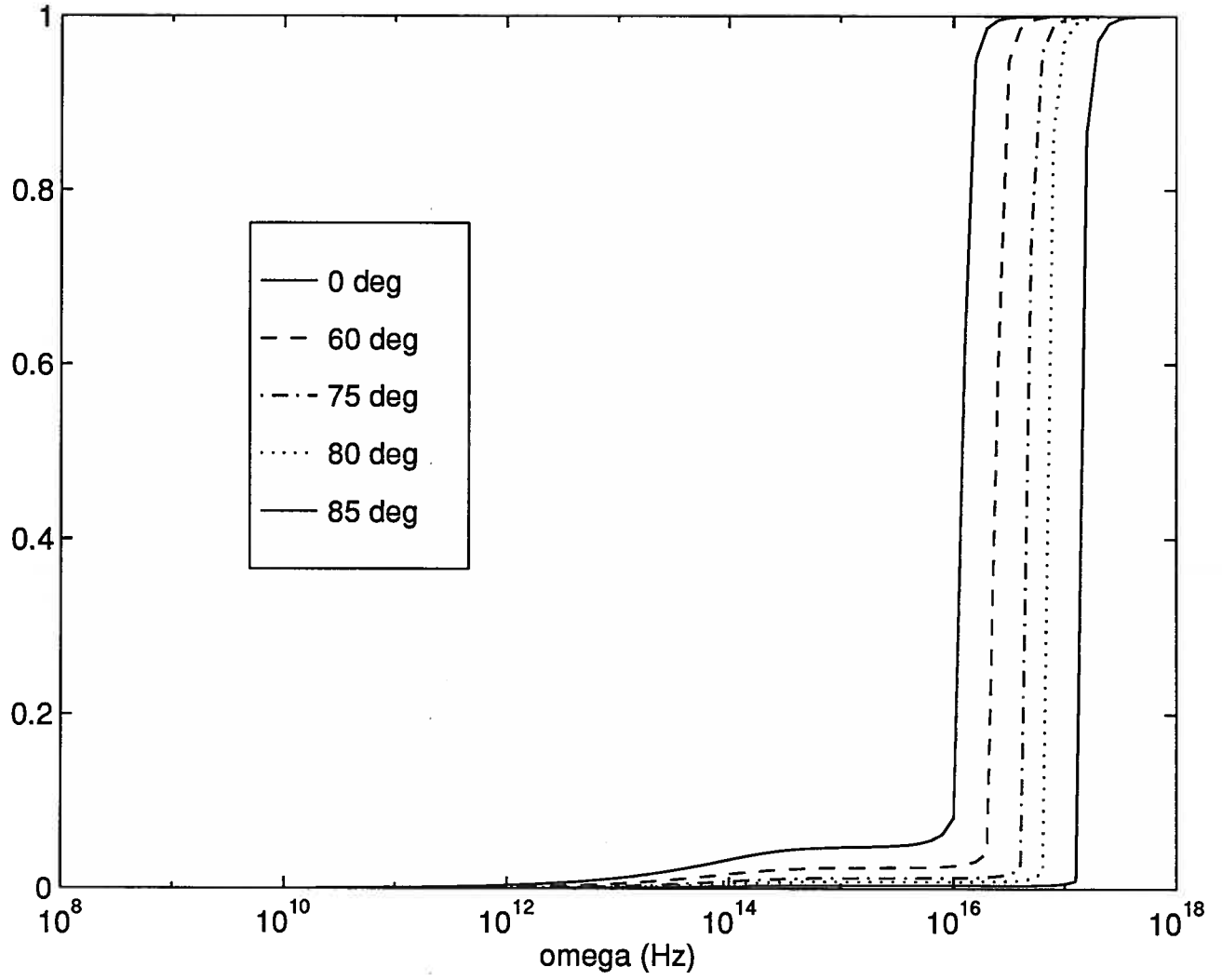
fraction of parallel energy transmitted for various incidence angles



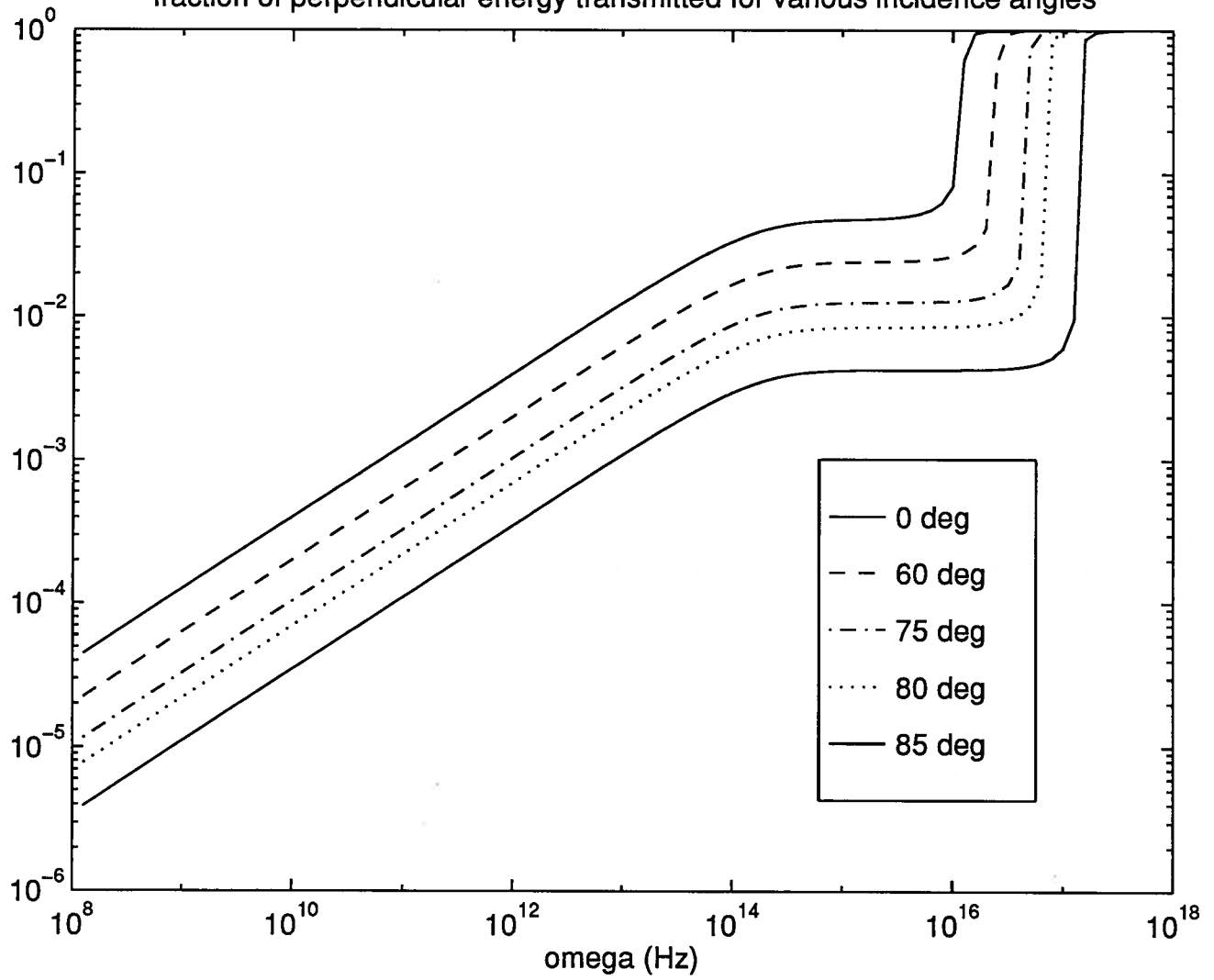
fraction of parallel energy transmitted for various incidence angles



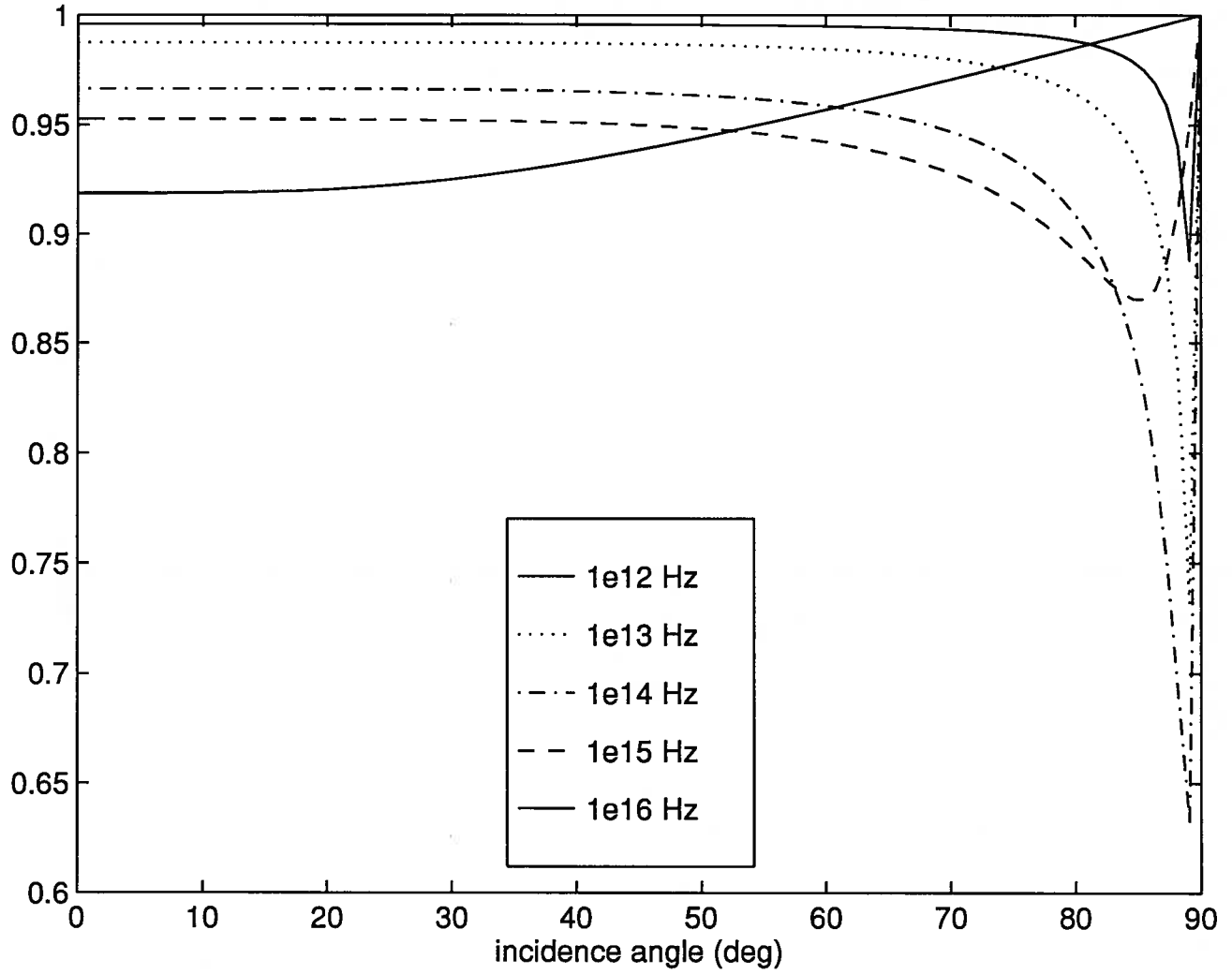
fraction of perpendicular energy transmitted for various incidence angles



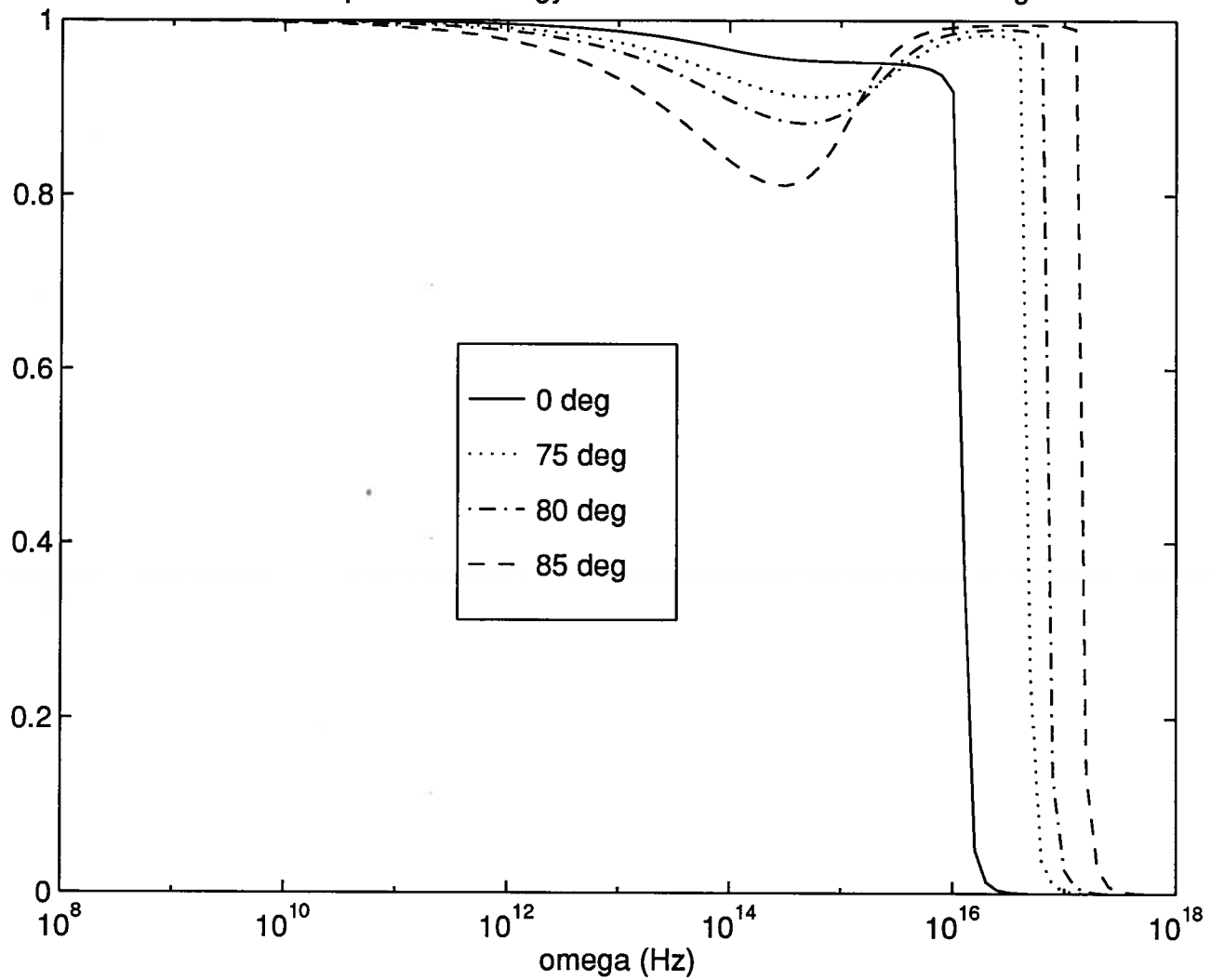
fraction of perpendicular energy transmitted for various incidence angles



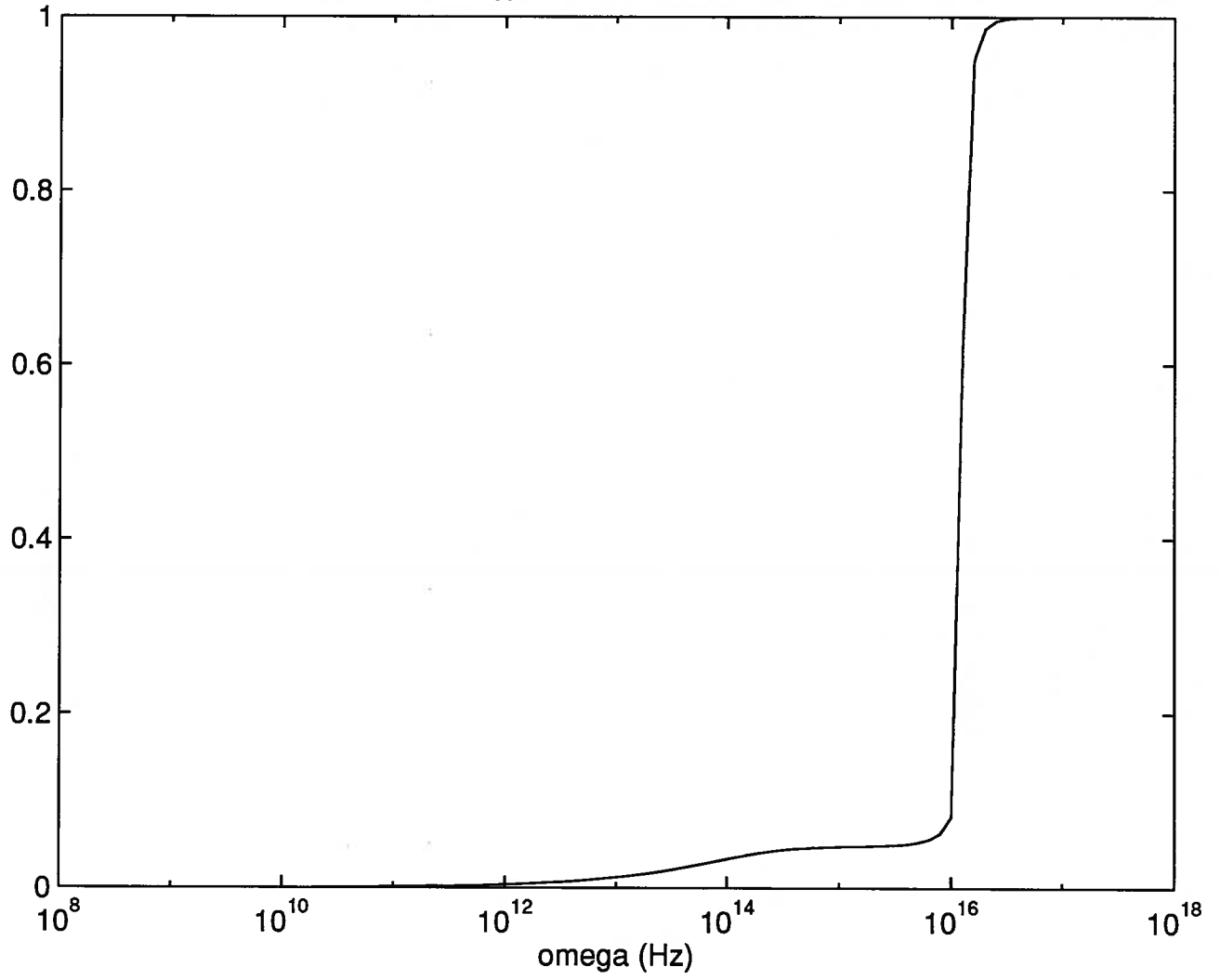
fraction of unpolarized energy reflected for various frequencies



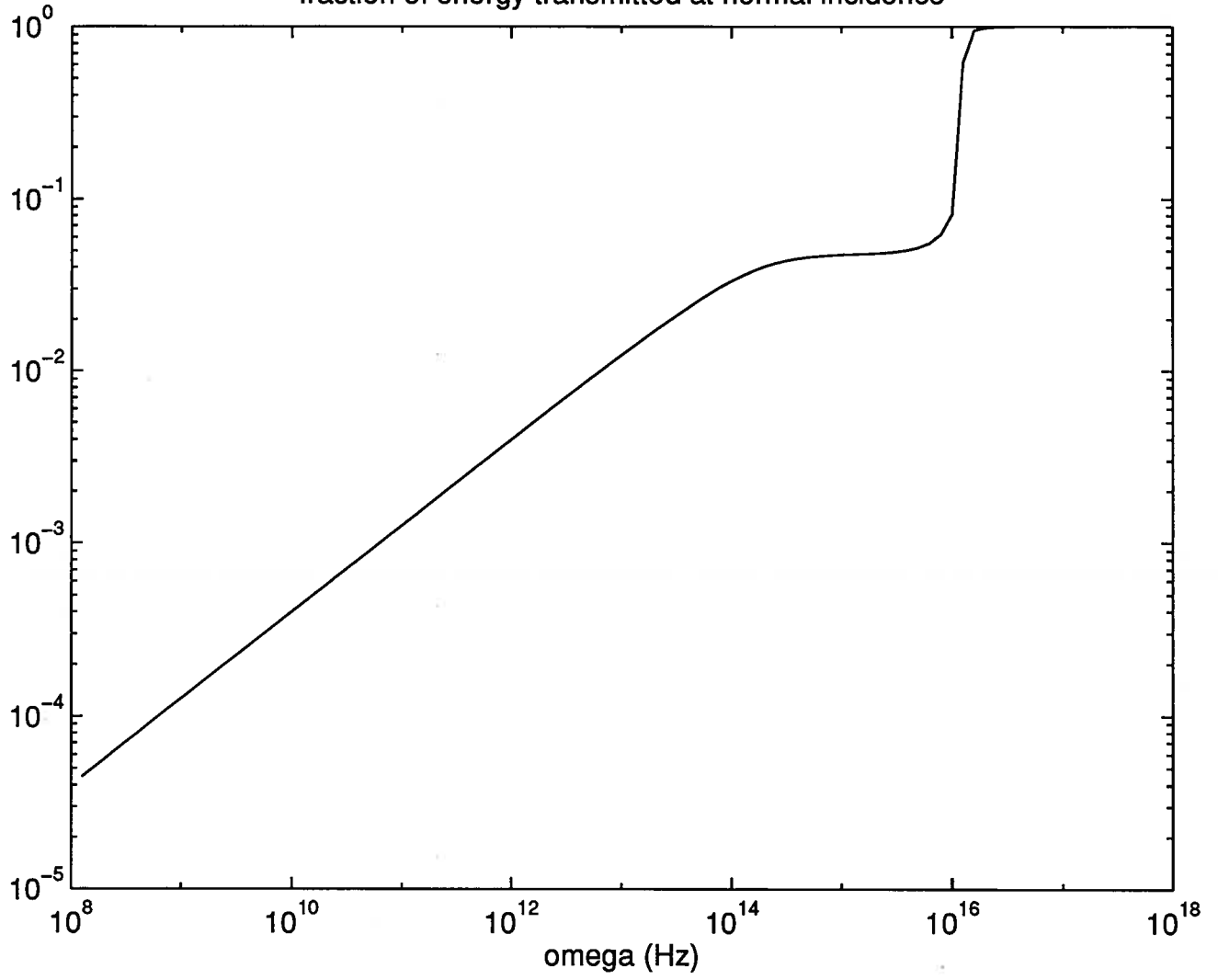
fraction of unpolarized energy reflected for various incidence angles



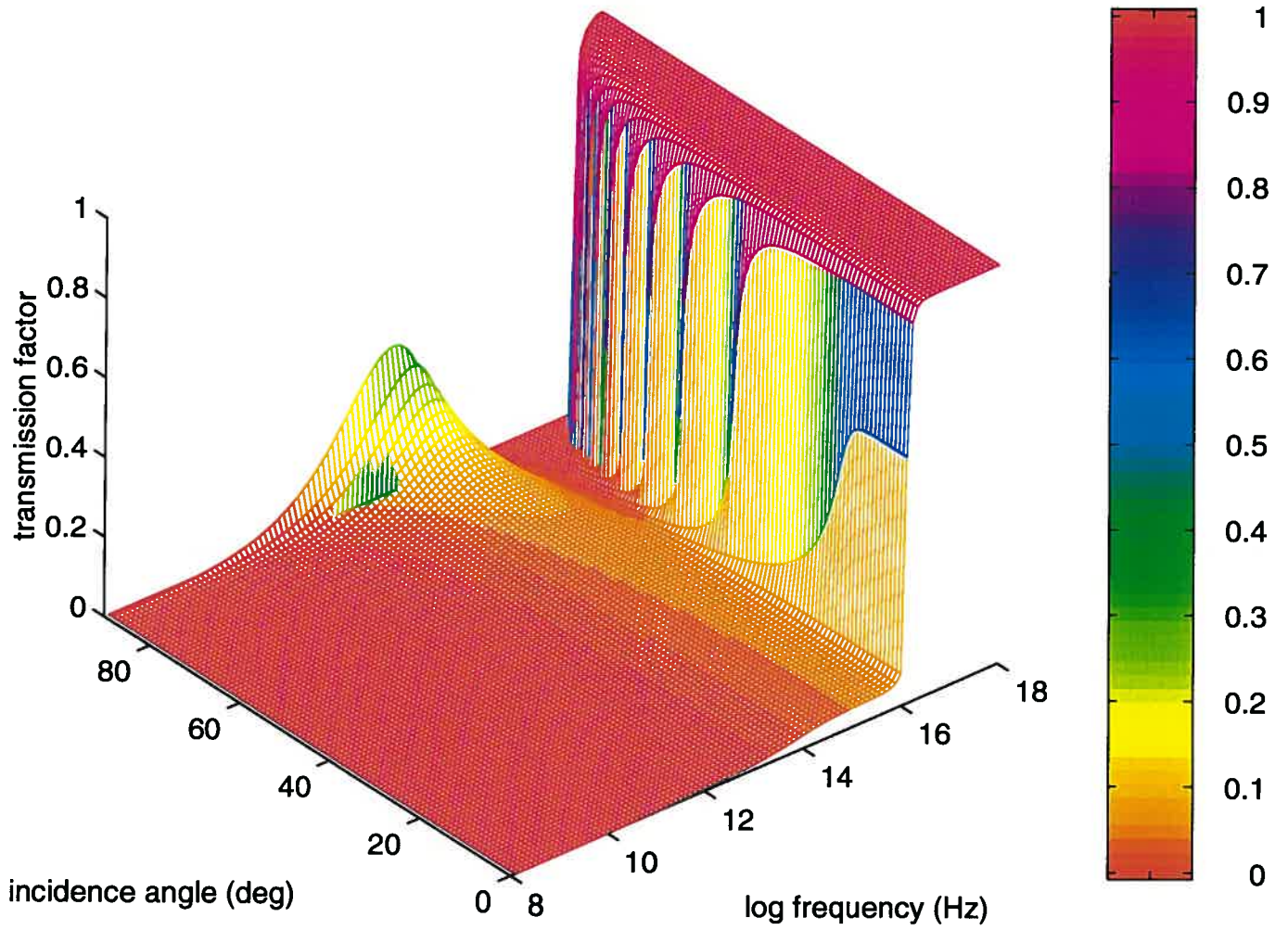
fraction of energy transmitted at normal incidence



fraction of energy transmitted at normal incidence

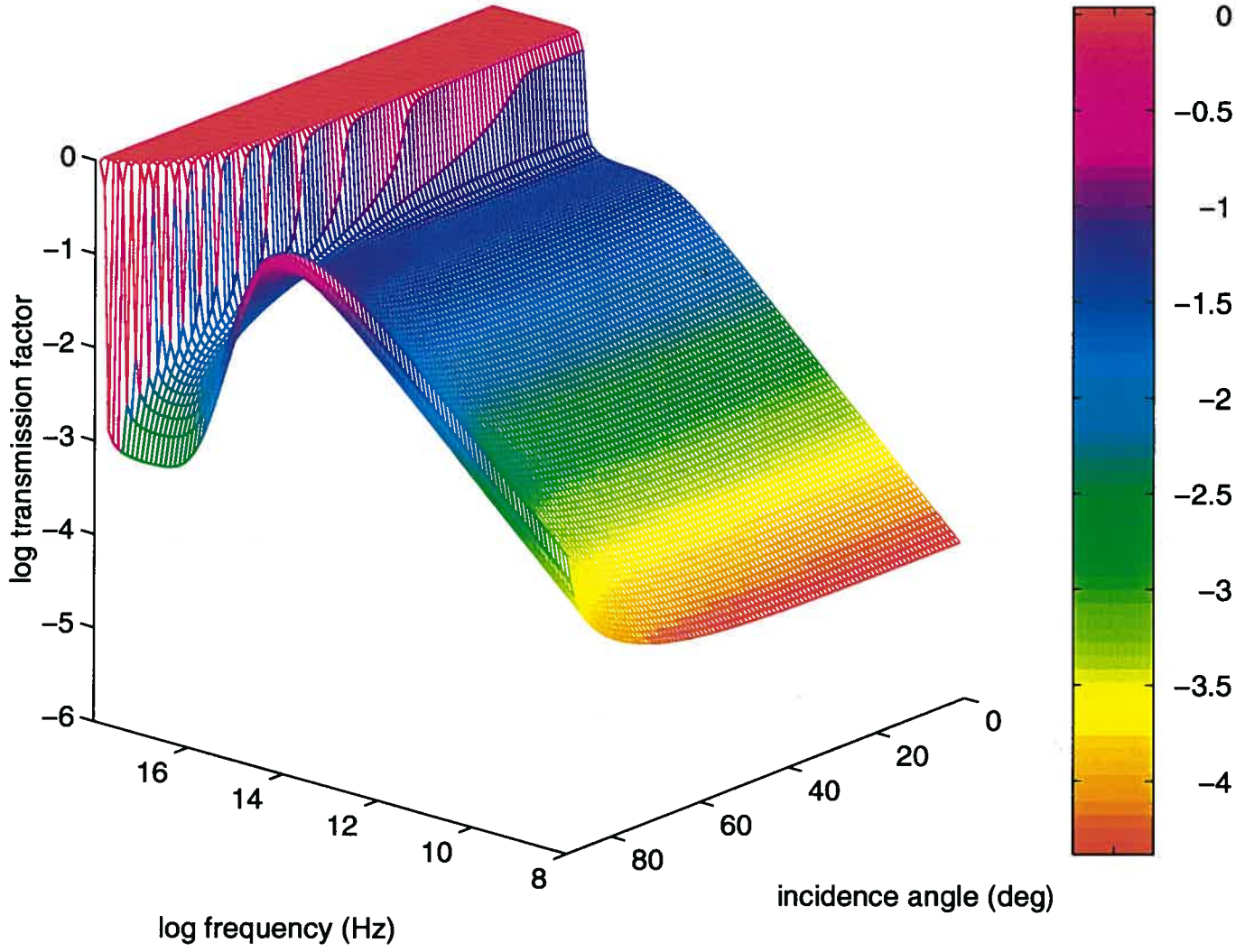


transmissivity of a metal surface



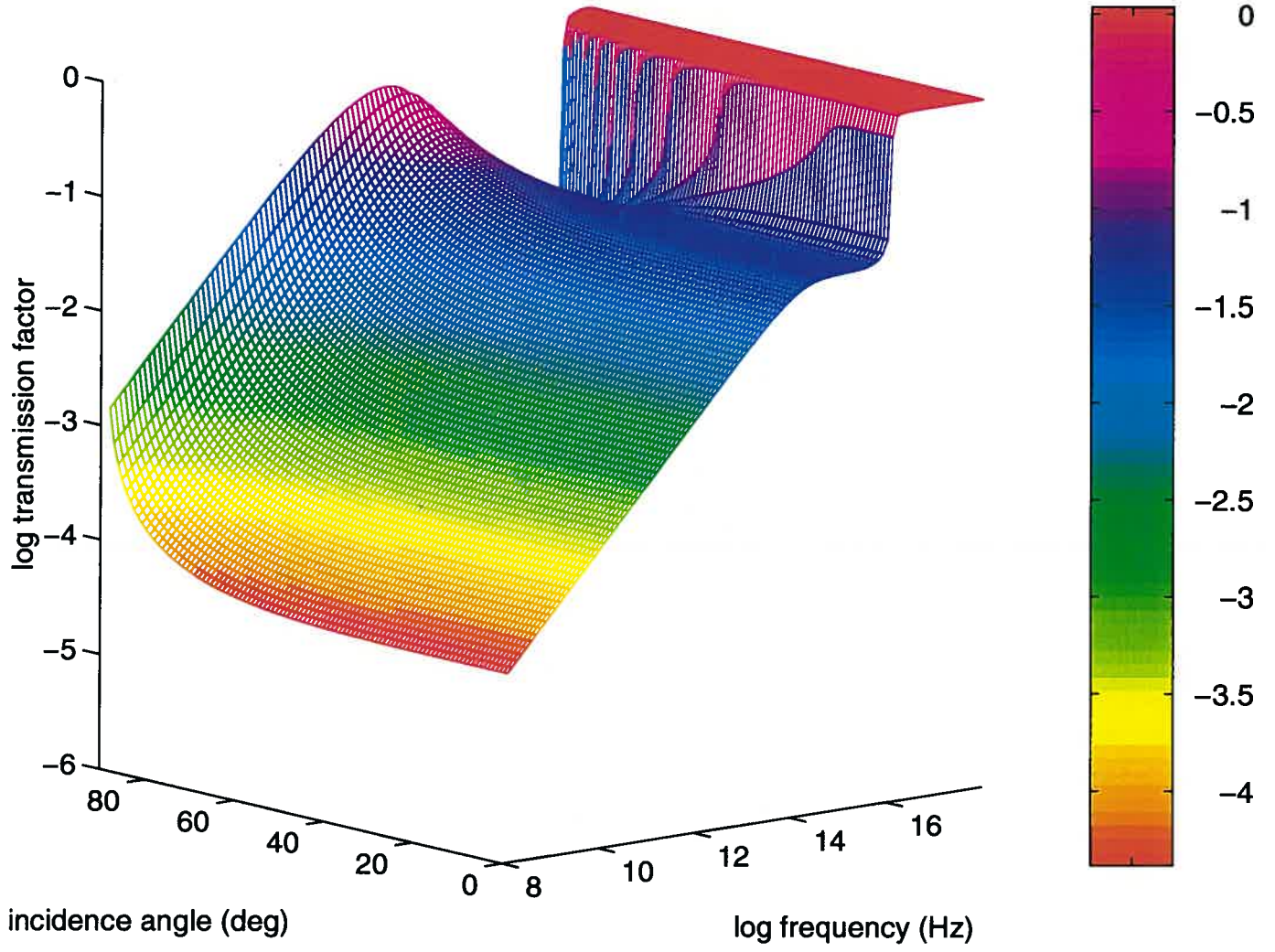
unpolarized

transmissivity of a metal surface



unpolarized

transmissivity of a metal surface



unpolarized

Normalized Blackbody Curves Superposed with Normal-Incidence Transmission Factor

