
CODES FOR CHAPTER 1

bbfn.f, bbfn.cpp, bbfn.m

Function `bbfn(x)` calculates the fractional blackbody emissive power, as defined by equation (1.23), where the argument is $x = n\lambda T$ with units of μmK .

planck.f, planck.cpp, planck.m, planck.exe

`planck` is a small stand-alone program that prompts the user for input (temperature and wavelength or wavenumber), then calculates the spectral blackbody emissive powers $E_{b\lambda}/T^5, E_{b\eta}/T^3$ and the fractional blackbody emissive power $f(\lambda T)$.