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      PROGRAM etoz
*****
* Conversion of dielectric function to surface impedance.      *
* the standard input file must have the format x eps1 eps2  *
* The outputfile comes as: x Rs Gs in Ohm                    *
*****
      REAL X(100000),e1,e2
      complex epsil(100000),cn,z
      INTEGER I,mm
      mm=100000
      do 10 i=1,mm
        READ(*,*,END=11) X(i),e1,e2
        epsil(i)=cmplx(e1,e2)
10      continue
11      mm=i-1
      do 25 i=1,mm
        cn=csqrt((epsil(i)))
        z=376.7304/cn
        write(*,*) x(i),real(z),-aimag(z)
25      continue
      END

```