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## **Glossary - SPIE**

The most common description of the  
electromagnetic field uses two three-  
dimensional vector fields called the  
electric field and the magnetic field.  
These vector fields each have a value  
defined at every point of space and time  
and are thus often regarded as functions  
of the space and time coordinates.

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Solution: Power =  $Nhf = Nhc/\lambda = 1 \text{ kw}$ ,  
so  $N = 103\lambda/hc \cong$

$103 \times 5 \times 10^{-7} / (6.6 \times 10^{-34} \times 3 \times 10^8) \cong$   
 $2.5 \times 10^{20}$  photons  $\text{m}^{-2}\text{s}^{-1}$ .

1.2 Forces  
and the measurement and nature of  
electromagnetic fields. Electric fields E  
and magnetic fields H are manifest only  
by the forces they exert on free or  
bound electric charges q [Coulombs].

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