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SOLUTIONS MANUAL CHAPTER 1 1.

The energy contained in a volume  $dV$   
is.  $U(\theta, T)dV = U(\theta, T)r^2 dr \sin$   
 $d\theta d\phi$  when the geometry is that  
shown in the figure. The energy from  
this source that emerges through a  
hole of area  $dA$  is  $dE(\theta, T) = U(\theta, T)$   
 $dV \cdot dA \cos \theta = 4\pi r^2 \sin \theta d\theta d\phi$ . The total energy  
emitted is  $dE(\theta, T) = \dots \cdot c \cdot t$ .

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that is  $h\nu = h\nu' + pc$  We get  $E + pc - mc^2 = 2h\nu$  from which it follows that  $2pc^2 + mc^4 = (2h\nu - pc + mc^2)$  so that  $pc = 4h^2\nu^2 + 4h\nu mc$   
 $4h^2\nu^2 + 2mc^2$  The energy loss for the photon is the kinetic energy of the proton  $K = E - mc^2$ . Now  $h\nu = 100$  MeV and  $mc^2 = 938$  MeV, so that  $pc = 182$  MeV and  $2E - mc^2 = K = 17.6$  MeV

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6. Let  $h\nu$  be the incident photon energy,  $h\nu'$  the final photon energy and  $p$  the outgoing

2

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Solutions 2 that is  $h\nu = h\nu' + pc$

We get  $E + pc - mc^2 = 2h\nu$  from

which it follows that  $2pc = 2 + m^2c^4$

$= (2h\nu - pc + mc^2)$  so that  $pc = 4h^2\nu^2$

$+ 4h\nu mc^2 - 4h^2\nu^2 + 2mc^2$  The energy loss

for the photon is the kinetic energy of

the proton  $K = E - mc^2$  Now  $h\nu = 100$

MeV and  $mc^2 \dots$

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Stephen George Gasiorowicz (May 10, 1928 – June 3, 2016) was an American theoretical physicist. He was born in Danzig in 1928 (Gdansk, Poland) and graduated from the University of California, Los Angeles in 1952.. From 1952 until 1960, Stephen was employed by Lawrence Berkeley National Laboratory at the University of California, Berkeley, as a research staff member.

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