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that is  $h\nu = -h\nu' + pc$  We get  $E + pc - mc^2 = 2h\nu$  from which it follows that  $2pc^2 + m^2c^4 = (2h\nu - pc + mc^2)^2$  so that  $pc = 4h^2\nu^2 + 4h\nu mc^2 - 4h\nu + 2mc^2$  The energy loss for the photon is the kinetic energy of the proton  $K = E - mc^2$ . Now  $h\nu = 100 \text{ MeV}$  and  $mc^2 = 938 \text{ MeV}$ , so that  $pc = 182 \text{ MeV}$  and  $2E - mc^2 = K = 17.6 \text{ MeV}$  6. Let  $h\nu$  be the incident photon energy,  $h\nu'$  the final photon energy and  $p$  the outgoing

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Stephen Gasiorowicz Quantum Physics Solutions Stephen Gasiorowicz Quantum Physics Solutions ]2 that is  $h\nu = -h\nu' + pc$  We get  $E + pc - mc^2 = 2h\nu$  from which it follows that  $2pc^2 + m^2c^4 = (2h\nu - pc + mc^2)^2$  so that  $pc = 4h^2\nu^2 + 4h\nu mc^2 - 4h\nu + 2mc^2$  The energy loss for the photon is the kinetic energy of the proton  $K = E - mc^2$  Now  $h\nu = 100 \text{ MeV}$  and  $mc^2 = 938 \text{ MeV}$  ...

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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.

### **Stephen Gasiorowicz - Wikipedia**

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