

2010 I: Q1 Quickie

1A) a.) metal is shiny because it reflects light
plasma is bright because it emits light

b.) electrons in a metal form an "electron sea" and are shared by all the atoms. electrons in a plasma act as their own fluid, setting up Debye shields and sheaths around other charges (ions) and self-consistently responding to E- and B-fields.

1B) see backside