

Shanhui Fan

1. Why is metal highly reflecting for incident electromagnetic wave?
2. How do you explain the following measured reflectivity spectrum of aluminum, which shows a drastic reduction of reflectivity for aluminum at ultraviolet wavelength range? (Taken from R. C. Vehse, E. T. Arakawa, and J. L. Stanford, Journal of Optical Society of America, 57, 551, 1967)
3. Could you provide a simple microscopic model for this?

