

Problem set 04

Problem 1

In a large homogeneous material slab with conductivity σ flows a homogeneous current in one direction. A cylindrical hole is drilled through the slab with radius a .

(a) Find the changed current density in the slab outside the hole.

(b) What scalar quantity is reasonable to graph here besides the vector field representing the current flow? Make a graph of this scalar quantity.

The problem is due Monday February 10 2025 at 20:00