L/2 L/2 Jackson 5.5 (a) From 5.3 we have Bz = Mo NI [cap, + cos 02] Proble Exercise 5.4 allows determination of Bz (p, z), Bo (p, z) from Bz and its derivatives alone Note that $\cos\theta_1 = \frac{L/2+\overline{z}}{\sqrt{\left(\frac{L}{2}+\overline{z}\right)^2+q^2}}$ $\cos\theta_2 = \frac{L/2*-\overline{z}}{\sqrt{\left(\frac{L}{2}-\overline{z}\right)^2+a^2}}$ Compute their dematres with respect to 2 evaluated at Z=0.