diameter (equal to the inner diameter of the outer conductor) of 3.02 mm. Both conductors are copper, and the dielectric material is Teflon. Compute the R, L, G, and C parameters of this line at 1 GHz, and use these results to find the characteristic impedance and attenuation of the line at 1 GHz. Compare your results to the manufacturer's specifications of 50 Ω and 0.43 dB/m, and discuss reasons for the difference. 2.7 Compute and plot the attenuation of the coaxial line of Problem 2.6, in dB/m, over a frequency range of 1 MHz to 100 GHz. Use log-log graph paper.

2.6 RG-402U semi-rigid coaxial cable has an inner conductor diameter of 0.91 mm, and a dielectric