Problems 1 & 2

Consider the following attenuation specifications for a several filters: (a) lowpass, (b) highpass, (c) bandpass and (d) bandstop.

Problem 1 Design passive filters with **Butterworth** characteristics to meet the above specifications. The final designs should have 50Ω resistors for source and load terminations. Your design should meet specifications at the edge of the passband(s). You may simulate the filters to verify your design.

Problem 2 Design passive filters with **Chebyshev** characteristics to meet the above specifications. The final designs should have 50Ω resistors for source and load terminations. You may simulate the filters to verify your design.