COMMUNICATING DATA USING WIDEBAND COMMUNICATIONS

Abstract

This disclosure relates to varying load and modulation applied to each of multiple frequency subchannels based on anticipated attenuation experienced by those subchannels. Communicating data includes identifying a static component of a transmission medium for wideband communications having at least two subchannels, determining a function of noise or attenuation versus frequency for the static component, selecting wideband modulation schemes for the subchannels based on the function determined, and communicating a data signal over the subchannels. Independent demodulation functions may be applied to at least two of the subchannels.

Figure 1