**Lab 2：Amplitude Modulation System**

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| **Introduction**  In Lab 2, we continue to do amplitude modulation by using LabView. However, we replace baseband signal by music signal in Lab2. We set the sampling rate of carrier signal and noise signal to 1M Hz and set number of samples of carrier signal and noise signal to 1M. First, we need to create a path to read the music signal on our computer, M(t). Then, we set the duration and resample rate of M(t) to obtain the signal  Sm(t). Then, Sm(t) is through AWGN Channel. However, it is all known that AWGN Channel has noise interference in the transmission process. So, we use Sm(t) to generate white noise, which simulate the noise in the transmission process and be received by the demodulator with Sm(t). Last, the signal after demodulating is played through Play Waveform.  **Lab results & Analysis**：  **Note**: Please indicate meaning of the symbols in all expressions. Please indicate the coordinate and unit in all figures. | |
| **Experience**  You can write your experience with this project. Any comment and suggestion on thiscourse are also very welcome. | |
| **Score** |  |

字体：英文Times new Roman；中文宋体，正文五号

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