

Exercise 6

Exercise 6.1

Exercise 6.2

Exercise 6.3

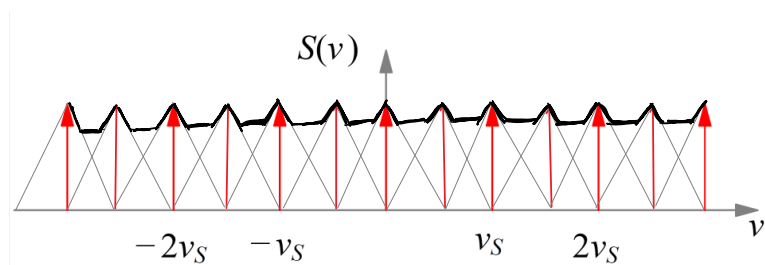
6.3.1

Nyquist - Shannon Theorem: The minimum sampling frequency of a signal that it will not distort its underlying information, should be double the frequency of its highest frequency component.

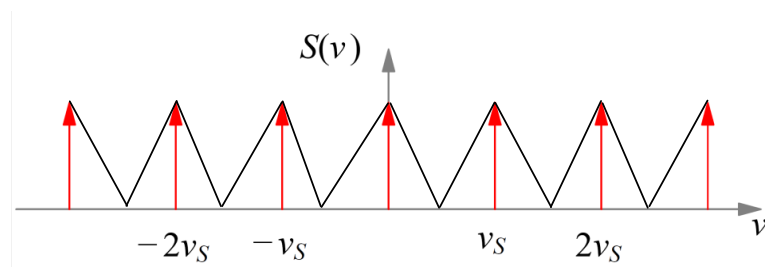
$$\nu_s \leq \frac{1}{2} * \nu_x$$

6.3.2

condition of 1. not full filled:



condition 1. full filled:



6.3.3