

①

# Sampling Alias/ghost frequencies

1, 2, 3

1 Hz



1 x

3

2

0.2

x1

sample

12 Hz

4 Hz

2 Hz

1 Hz

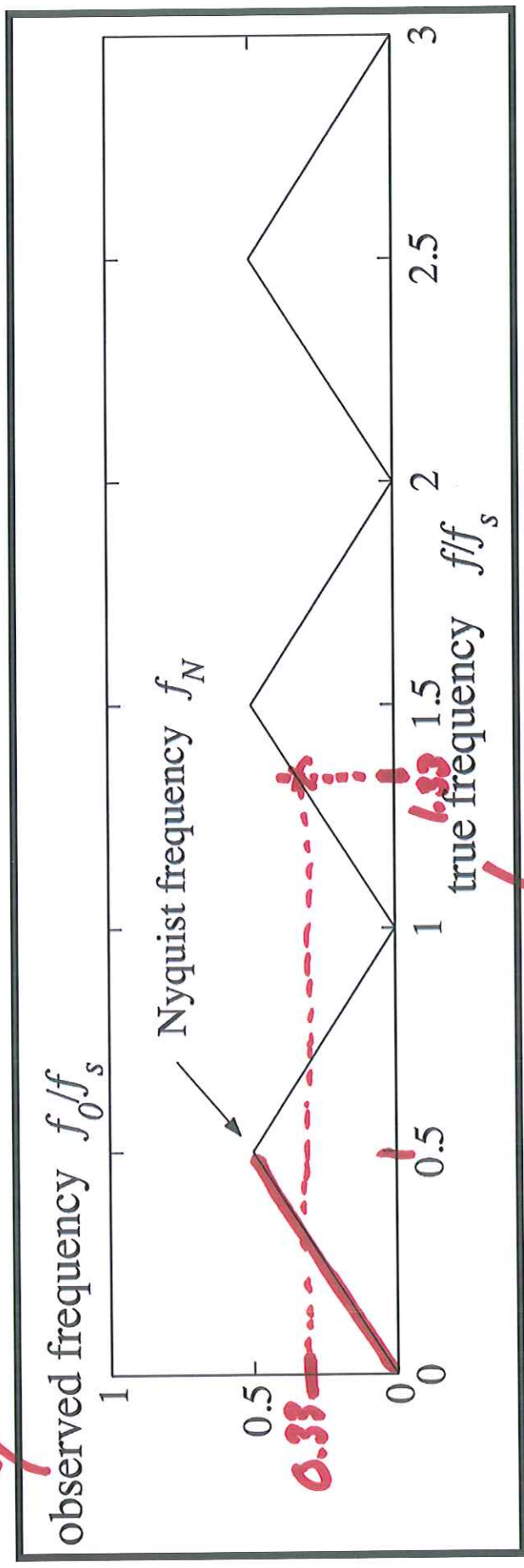
10.25 Hz

limit frequency  
Nyquist freq

# Apparent and true frequencies

2

digital



$$f = 1000 \text{ Hz}$$

$$f_s = 750 \text{ Hz}$$

$$f/f_s = 1.33$$

analogy

$$f_0/f_s = 0.33$$

$$f_0 = 0.33 \cdot 750 = 250 \text{ Hz}$$

3

# AD-converter

