

FORMULAE

The following formulas may be helpful:

1. General sine wave:

$$s(t) = A \sin(2\pi ft + \phi)$$

2. Nyquist's Law:

$$C = 2 B \log_2 M$$

where M is the number of signalling levels

3. Shannon's Law:

$$C = B \log_2(1 + SNR)$$

4. Quantization Error or Quantization Noise:

$$SNR = 6.02n + 1.76 \text{ dB}$$

5. SNR to SNR_{dB} conversion:

$$SNR_{dB} = 10 \log_{10}(SNR)$$

— END OF FORMULAE —