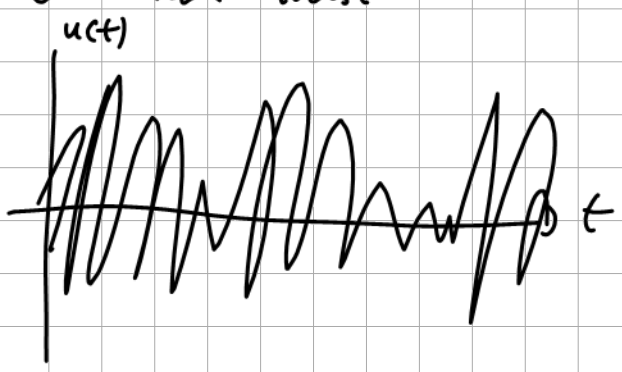
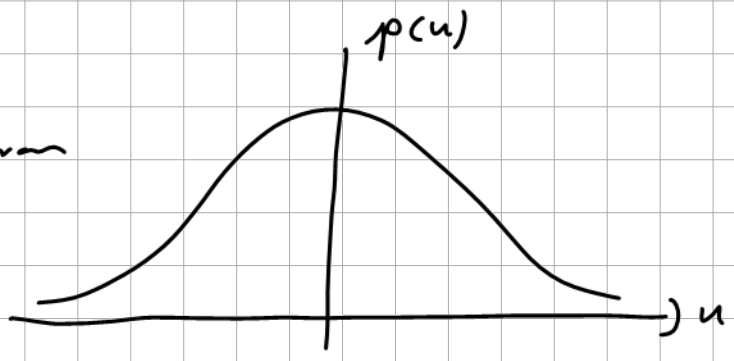
Gaussian Noise

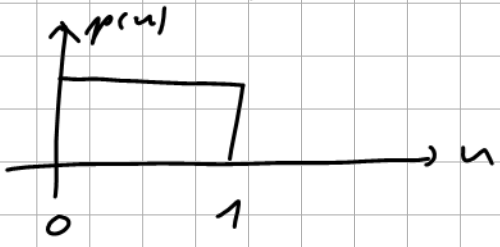


Histogram →



numpy.random.randn(1000) 1000 Samples Gaussian Noise

numpy.random.rand(1000) 1000 Samples of uniform Noise



numpy.random.randn(1000) · 3 + 5

↑ σ ↑ mean value

Impulse Response

Evaluate Cutoff Frequencies (h, r)

$f = 0, 1, 2, \dots, \frac{r}{2}$

Transfer Function

H_dB = EvalZTrafo(h, f, r)

search maximum in H_dB = fmax

search frequency $f_{c2} > f_{max}$: $H\_dB(f > f_{c2}) + 3.01dB <$ $H(f_{max})$