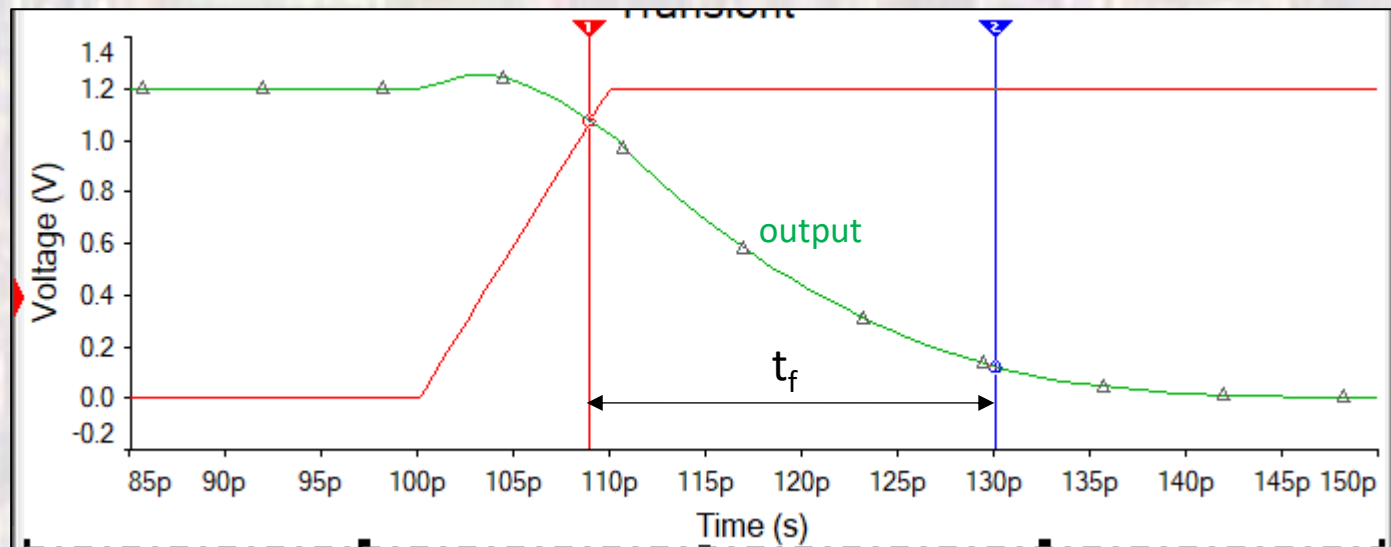# Common Waveform Measurements

Last modified 1/13/25
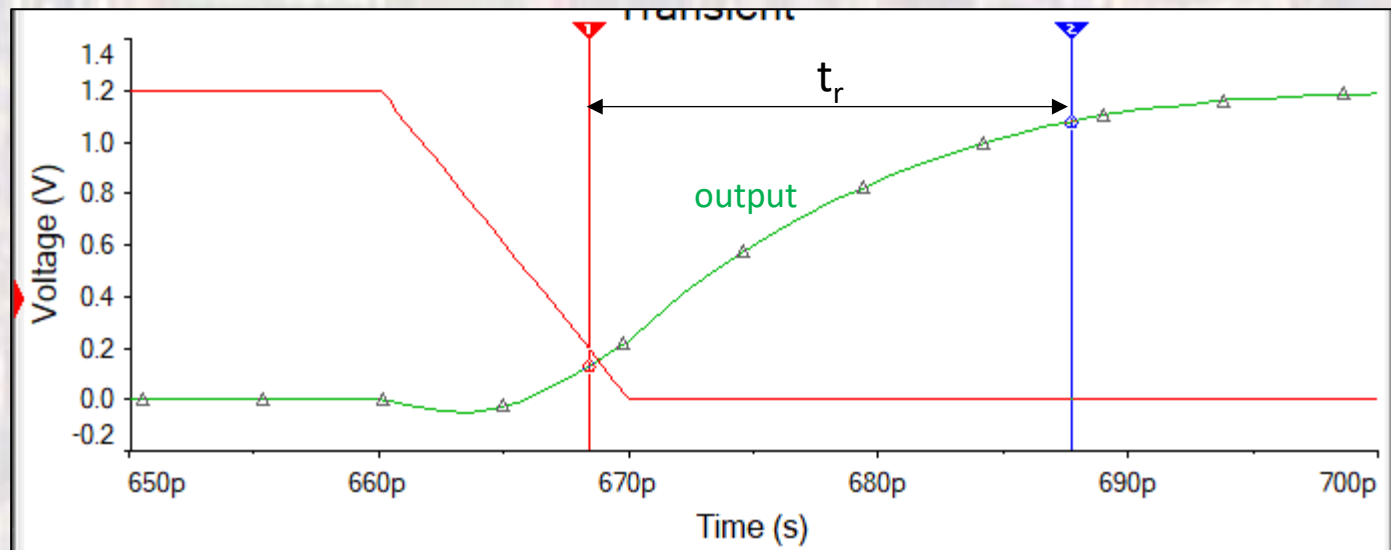
Fall Time

- t_f
  - t_f measure from 90% of "high" value to 10% of "high" value
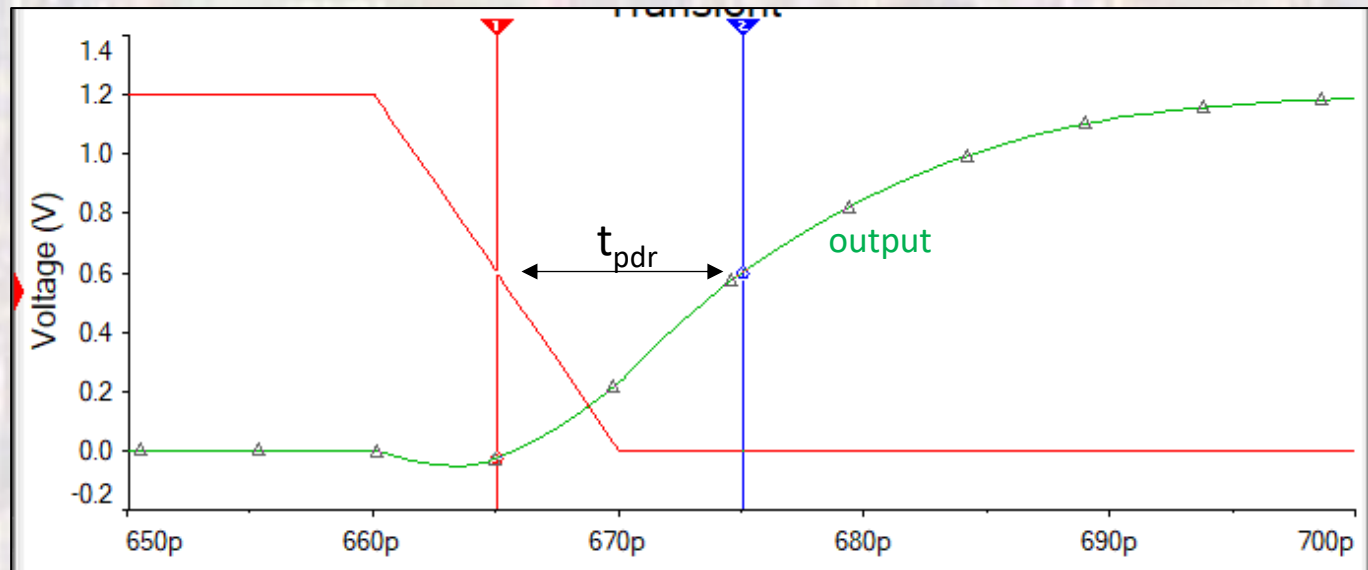 - Intended to exclude any ripple or overshoot

Rise Time

- t_r
  - t_r measure from 10% of "high" value to 90% of "high" value
  - Intended to exclude any ripple or overshoot

Propagation Delay - Rising

- t_{pdr}
  - t_{pdr} measure from 50% of input "high" value to 50% of output "high" value on an output rising edge

Propagation Delay - Falling

- t_{pdf}
  - t_{pdf} measure from 50% of input "high" value to 50% of output "high" value on an output falling edge