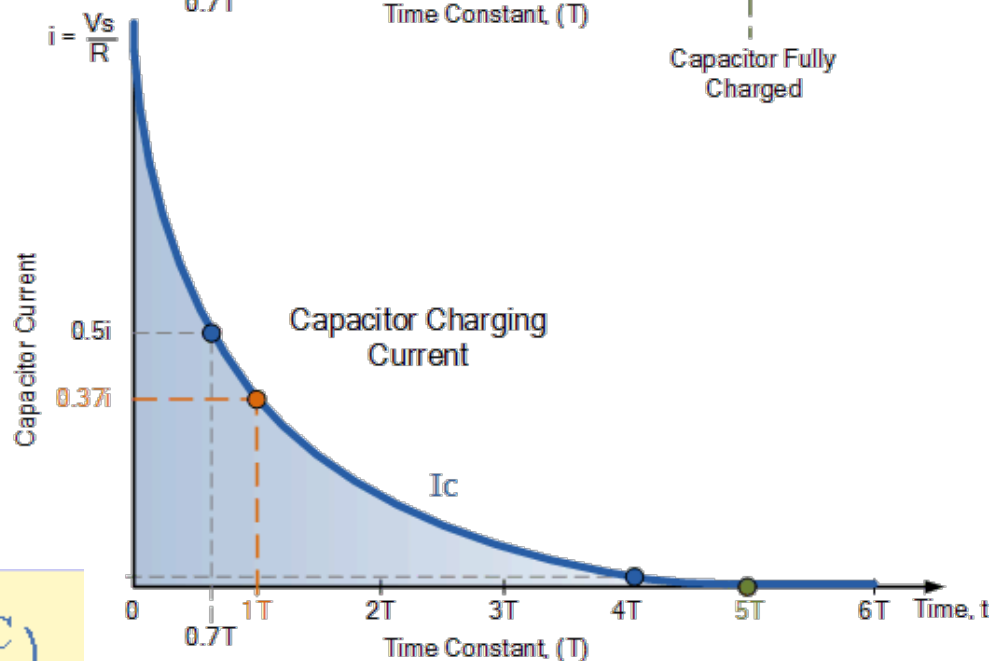
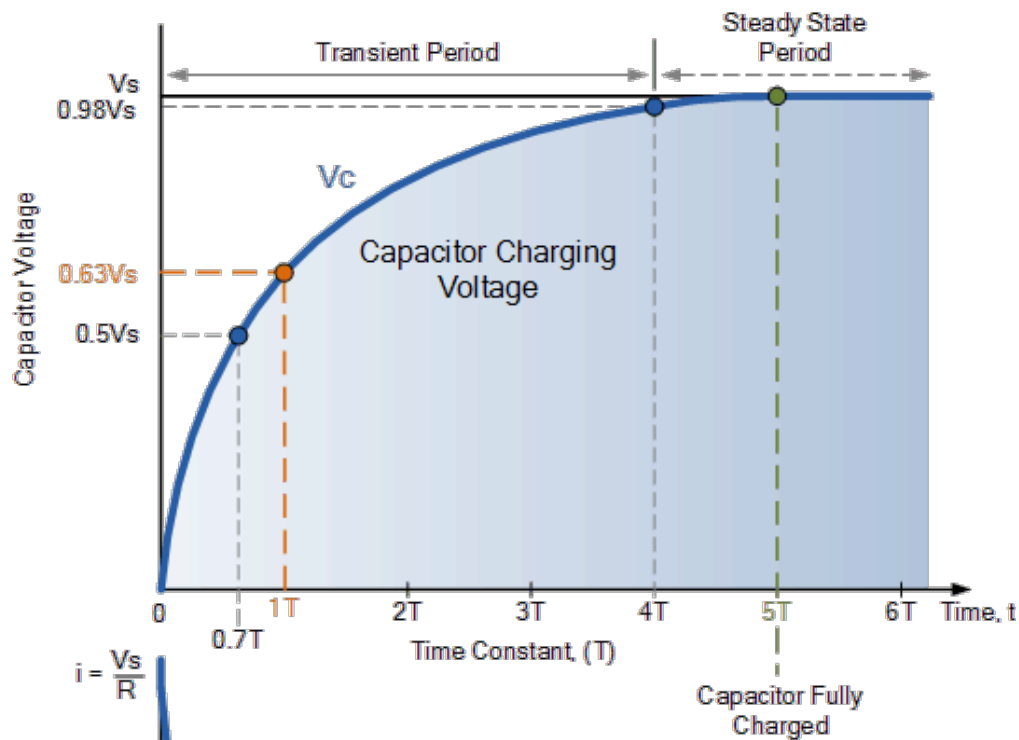


$$\tau \equiv R \times C$$

$$V_c = V_s (1 - e^{-t/RC})$$



Time Constant	RC Value	Percentage of Maximum	
		Voltage	Current
0.5 time constant	$0.5T = 0.5RC$	39.3%	60.7%
0.7 time constant	$0.7T = 0.7RC$	50.3%	49.7%
1.0 time constant	$1T = 1RC$	63.2%	36.8%
2.0 time constants	$2T = 2RC$	86.5%	13.5%
3.0 time constants	$3T = 3RC$	95.0%	5.0%
4.0 time constants	$4T = 4RC$	98.2%	1.8%
5.0 time constants	$5T = 5RC$	99.3%	0.7%