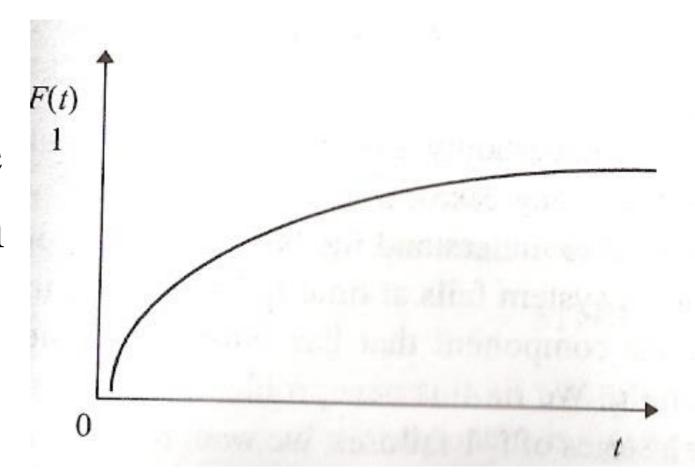
Cumulative Density Function (CDF)

• Cumulative density function (CDF): depicting cumulative failures up to a given time *t*

$$F(t) = \int_0^t f(t)dt$$



For exponential distribution, CDF is:

$$F(t) = \begin{cases} 1 - e^{-\lambda t} & t \ge 0 \\ 0 & t < 0 \end{cases}$$