

$$C_b(t) = E_0 \left( \frac{t}{R_d} + \frac{1}{s} + \frac{1}{r} \right)$$

$$C_b(t) - E_0 \left( \frac{1}{sR_d} \right) = E_0 \left( \frac{t}{R_d} + \frac{1}{s} \right) - E_0 \left( \frac{1}{sR_d} \right)$$

$$C_d(t) = \frac{E_0}{R_d} t$$