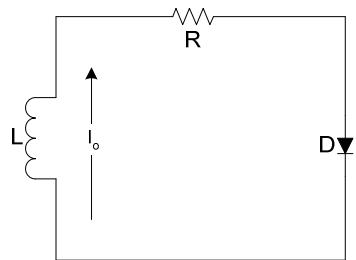


Recirculating diode equation

Circuit:



EF 12/6/2006

Differential equation (first order; homogeneous; non-linear):

$$\frac{di}{dt} + \left[\frac{R}{L} \times i - \frac{n \times V_T}{L} \times \ln\left(\frac{i}{I_s} + 1\right) \right] = 0$$