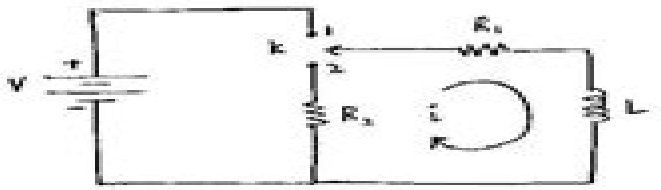
By Aasim Ashai
IUST

4-1

For $t < 0$,

$-V + i(0^-)R_1 + 0 = 0$ [L acts as a short circuit]

$i(0^-) = \frac{V}{R_1}$



For $t > 0$,

$i(t)R_1 + L\frac{di(t)}{dt} + i(t)R_2 = 0$

$L\frac{di(t)}{dt} + (R_1 + R_2)i(t) = 0$

$\frac{di(t)}{dt} + \frac{(R_1 + R_2)}{L} i(t) = 0$

$\frac{di(t)}{dt} = -\frac{(R_1 + R_2)}{L} i(t)$

$\int \frac{di(t)}{i(t)} = \int -\frac{(R_1 + R_2)}{L} dt$

$\ln i(t) = -\frac{(R_1 + R_2)}{L} t + \ln k$

$i(t) = k e^{-(R_1 + R_2)/L\, t}$

At $t = 0$,

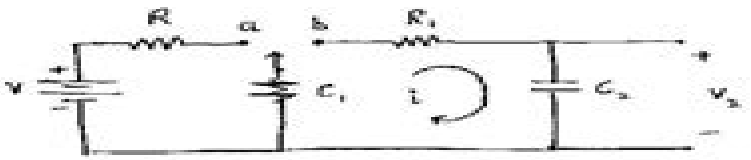
$i(0) = k = \frac{V}{R_1}$ [$i(0^-) = i(0) = i(0^+)$]

$$\therefore \boxed{i(t) = \frac{V}{R_1} e^{-(R_1 + R_2)/L\, t}}$$

4-2

For $t < 0$,

$V_{c_1}(0^-) = V$



For $t > 0$,

$i(t)R_1 + \frac{1}{C_2}\int_{-\infty}^{t} i(t)\,dt + \frac{1}{C_1}\int_{-\infty}^{t} i(t)\,dt$

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Louis R. Nardizzi

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species In Chapter 6 we consider the source inference problem where the goal is to identify the source s of propagated signals across biological social and engineered networks To solve this problem we propose a computationally tractable general method based on a path based network diffusion kernel We prove mean field optimality of this method for different scenarios and show its effectiveness over several synthetic networks as well as in identifying sources in a Digg social news network In Chapter 7 we consider the problem of learning low dimensional structures such as clusters in large networks Here we introduce logistic Random Dot Product Graphs RDPGs as a new class of networks which includes most stochastic block models as well as other low dimensional structures Using this model we propose a scalable spectral method that solves the maximum likelihood inference problem asymptotically exactly This leads to a new scalable spectral network clustering algorithm that is robust under different clustering setups In Chapter 8 we consider the biclustering problem the analog of clustering on bipartite graphs This problem has several applications such as inference of co regulated genes document classification and so on Here we propose an algorithm based on message passing that closely approximates a general likelihood function and excels at resolving the overlaps between biclusters In Chapters 9 12 we consider design challenges of systems and algorithms for engineering networks such as communication networks In Chapters 9 10 we create a connection between compressive sensing and traditional information theoretic techniques in source channel and network coding and propose a joint coding scheme over wireless networks based on random projection and restricted eigenvalue principles Moreover we characterize fundamental results on the trade off between the communication rate and the decoding complexity In Chapters 11 12 we propose an adaptive nonuniform sampling framework in which time increments between samples are determined as a function of the most recent increments and sample values obviating the need to track time stamps We analyze the performance of the proposed method for different stochastic and deterministic signal models and show its effectiveness to enhance measurements of heart ECG signals

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