

# Transient Response of RC and RL Circuits

## Objective

- Observe, and compare with theory, the transient response of RL, RC and RLC circuits under various damping conditions.
- To develop skills in circuit analysis and data collection
- To improve report writing

## Theory:

### 1) Transient behavior of RC circuits

For the RC circuit in Figure 9.1 assume that the power supply is  $V_i(t) = V_s \cdot u(t)$  volts, where  $u(t)$  is the unit step function, i.e.,  $u(t) = 0, t < 0$  and  $u(t) = 1, t \geq 0$ .

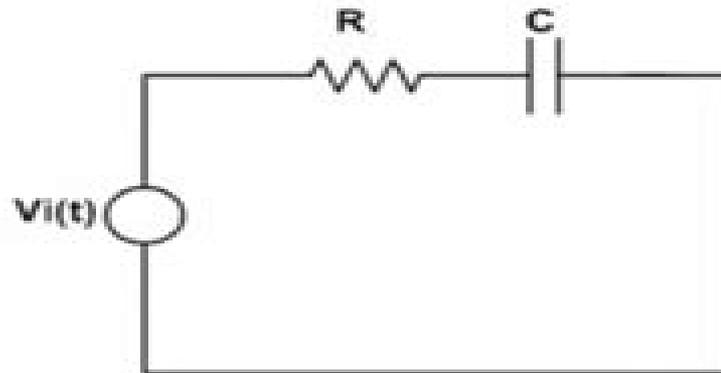


Figure 9.1 - Series RC circuit.

Then, the capacitor voltage transient equation can be written as

$$V_C(t) = V_C(\infty) + \left[ V_C(0) - V_C(\infty) \cdot e^{\left(\frac{-t}{T_c}\right)} \right] \quad (9.1)$$

Where  $T_c = RC$  is the time constant and  $V_C(0)$  and  $V_C(\infty)$  are the initial and final voltages across the capacitor at time  $t = 0$  and  $t = \infty$ , respectively.

### 2) Transient behavior of RL circuits

For the RL circuit in Figure 9.2, assume that the power supply is  $V_i(t) = V_s \cdot u(t)$  volts.

# Circuit Analysis Objective Questions Transient Response

**J Rink**



## **Circuit Analysis Objective Questions Transient Response:**

**Network Theory: Analysis and Synthesis : For the University of Mumbai** Ravish R. Singh, This book is core to the understanding of engineering of Electronics and Telecommunications and hence it becomes an important subject for students of Electronics Telecommunication Engineering and Electronics Engineering in their Third Semester A strong conceptual understanding of the subject is what the textbook lends to its reader and an apart from an emphasis on problem solving approach and discussion on both analysis and synthesis of networks It offers ample coverage of DC circuits network theorems transient analysis two port networks and network synthesis among other major topics **NETWORK ANALYSIS AND SYNTHESIS** KUMAR, A. ANAND,2019-01-01 This comprehensive text on Network Analysis and Synthesis is designed for undergraduate students of Electronics and Communication Engineering Electrical and Electronics Engineering Electronics and Instrumentation Engineering Electronics and Computer Engineering and Biomedical Engineering The book will also be useful to AMIE and IETE students Written with student centered pedagogically driven approach the text provides a self centered introduction to the theory of network analysis and synthesis Striking a balance between theory and practice it covers topics ranging from circuit elements and Kirchhoff's laws network theorems loop and node analysis of dc and ac circuits resonance transients coupled circuits three phase circuits graph theory Fourier and Laplace analysis Filters attenuators and equalizers to network synthesis All the solved and unsolved problems in this book are designed to illustrate the topics in a clear way **KEY FEATURES** Numerous worked out examples in each chapter Short questions with answers help students to prepare for examinations Objective type questions Fill in the blanks Review questions and Unsolved problems at the end of each chapter to test the level of understanding of the subject Additional examples are available at [www.phindia.com](http://www.phindia.com) **anand\_kumar\_network\_analysis** **Network Analysis and Synthesis** Mohammed Arshad,2006-06

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**A First Circuits Course for Engineering Technology** Charles Belove, 1982

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### **Table of Contents Circuit Analysis Objective Questions Transient Response**

1. Understanding the eBook Circuit Analysis Objective Questions Transient Response
  - The Rise of Digital Reading Circuit Analysis Objective Questions Transient Response
  - Advantages of eBooks Over Traditional Books
2. Identifying Circuit Analysis Objective Questions Transient Response
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Circuit Analysis Objective Questions Transient Response
  - User-Friendly Interface
4. Exploring eBook Recommendations from Circuit Analysis Objective Questions Transient Response
  - Personalized Recommendations
  - Circuit Analysis Objective Questions Transient Response User Reviews and Ratings
  - Circuit Analysis Objective Questions Transient Response and Bestseller Lists

5. Accessing Circuit Analysis Objective Questions Transient Response Free and Paid eBooks
  - Circuit Analysis Objective Questions Transient Response Public Domain eBooks
  - Circuit Analysis Objective Questions Transient Response eBook Subscription Services
  - Circuit Analysis Objective Questions Transient Response Budget-Friendly Options
6. Navigating Circuit Analysis Objective Questions Transient Response eBook Formats
  - ePub, PDF, MOBI, and More
  - Circuit Analysis Objective Questions Transient Response Compatibility with Devices
  - Circuit Analysis Objective Questions Transient Response Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Circuit Analysis Objective Questions Transient Response
  - Highlighting and Note-Taking Circuit Analysis Objective Questions Transient Response
  - Interactive Elements Circuit Analysis Objective Questions Transient Response
8. Staying Engaged with Circuit Analysis Objective Questions Transient Response
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Circuit Analysis Objective Questions Transient Response
9. Balancing eBooks and Physical Books Circuit Analysis Objective Questions Transient Response
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Circuit Analysis Objective Questions Transient Response
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Circuit Analysis Objective Questions Transient Response
  - Setting Reading Goals Circuit Analysis Objective Questions Transient Response
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Circuit Analysis Objective Questions Transient Response
  - Fact-Checking eBook Content of Circuit Analysis Objective Questions Transient Response
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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