

# 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  $u(t) = 1$ ,  $t \geq 0$ .

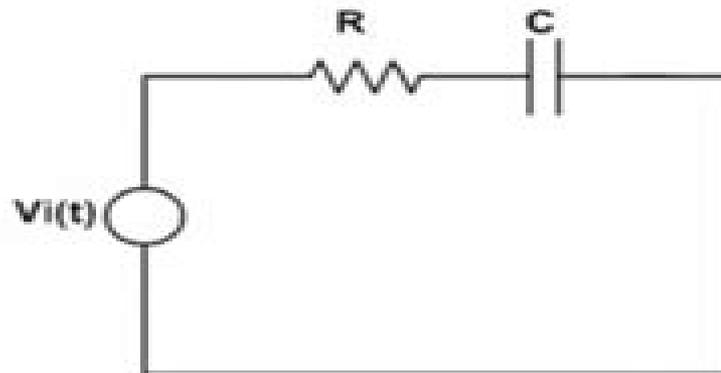


Figure 9.1 - Series RC circuit.

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.

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**RJ Shavelson**



## **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 **Computer-Aided Design of Analog Integrated Circuits and Systems** Rob A. Rutenbar, Georges G. E. Gielen,2002-05-06 The tools and techniques you need to break the analog design bottleneck Ten years ago analog seemed to be a dead end technology Today System on Chip SoC designs are increasingly mixed signal designs With the advent of application specific integrated circuits ASIC technologies that can integrate both analog and digital functions on a single chip analog has become more crucial than ever to the design process Today designers are moving beyond hand crafted one transistor at a time methods They are using new circuit and physical synthesis tools to design practical analog circuits new modeling and analysis tools to allow rapid exploration of system level alternatives and new simulation tools to provide accurate answers for analog circuit behaviors and interactions that were considered impossible to handle only a few years ago To give circuit designers and CAD professionals a better understanding of the history and the current state of the art in the field this volume collects in one place the essential set of analog CAD papers that form the foundation of today's new analog design automation tools Areas covered are Analog synthesis Symbolic analysis Analog layout Analog modeling and analysis Specialized analog simulation

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

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