

Time Response Analysis in Second Order System

RLC series circuit using MATLAB SIMULINK

Sabin Kasula

June 10, 2024

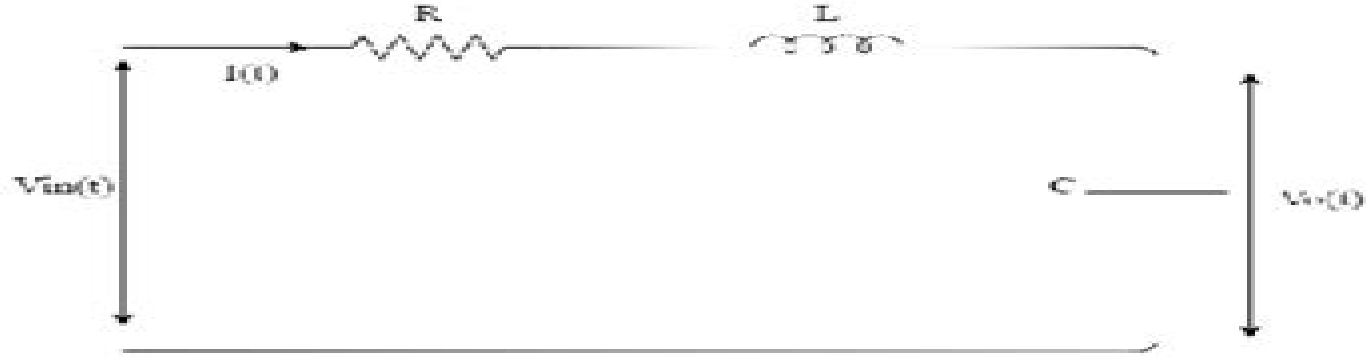


Figure 1: Series RLC



Figure 2: RLC series in MATLAB SIMULINK

The voltage equation for a series RLC circuit using Kirchhoff's Voltage Law (KVL) is:

$$V_{in}(t) = I(t) \cdot R + L \cdot \frac{dI(t)}{dt} + V_o(t) \quad (1)$$

we have,

$$I(t) = C \cdot \frac{dV_o(t)}{dt} \quad (2)$$

then above equation 1 becomes,

$$V_{in}(t) = RC \cdot \frac{dV_o(t)}{dt} + LC \cdot \frac{d^2V_o(t)}{dt^2} + V_o(t) \quad (3)$$

Second Order System Of Rlc On Matlab

S Ben Porath



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Practical MATLAB Applications for Engineers Misza Kalechman, 2018-10-08 Practical Matlab Applications for Engineers provides a tutorial for those with a basic understanding of Matlab It can be used to follow Misza Kalechman s Practical Matlab Basics for Engineers cat no 47744 This volume explores the concepts and Matlab tools used in the solution of advanced course work for engineering and technology students It covers the material encountered in the typical engineering and technology programs at most colleges It illustrates the direct connection between theory and real applications Each chapter reviews basic concepts and then explores those concepts with a number of worked out examples

Control Systems Engineering Using Matlab S N Sivanandam, 2009-11-01 Control Systems Engineering using MATLAB provides students with a concise introduction to the basic concepts in automatic control systems and the various methods of solving its problems Designed to comfortably cover two academic semesters the style and form of the book makes it easily comprehensible for all engineering disciplines that have control system courses in their curricula The solutions to the problems are programmed using MATLAB 6 0 for which the simulated results are provided The MATLAB Control Systems Toolbox is provided in the Appendix for easy reference The book would be useful as a textbook to undergraduate students and as quick reference for higher studies

Circuit Systems with MATLAB and PSpice Won Y. Yang, 2012-03-02 1 Instead of the conventional method using the general particular solutions to solve differential equations for the circuits containing inductors capacitors this book lays emphasis on the Laplace transform method for solving differential equations We recommend taking the Laplace transform of electric circuits containing inductors capacitors and setting up the transformed circuit equations directly in the unified framework as if they were just made of resistors and sources rather than setting up the circuit equations in the form of differential equations and then taking their Laplace transforms to solve them The Laplace transform and the inverse Laplace transform are introduced in the Appendix 2 This book presents several MATLAB programs that can be used to get the Laplace transformed solutions take their inverse Laplace transforms and plot the solutions along the time or frequency axis The MATLAB programs can save a lot of time and effort for obtaining the solutions in the time domain or frequency domain so that readers can concentrate on establishing circuit equations gaining insights to the problems and making observations interpretations of the solutions 3 This book also introduces step by step how to use OrCAD PSpice for circuit simulations For circuit problems taking much time to solve by hand the readers are recommended to use MATLAB and PSpice This approach gives the readers not only information about the state of the art but also self confidence on the condition that the graphical solutions obtained by using the two software tools agree with each other The OrCAD PSpice is introduced in the Appendix However the portion of MATLAB and PSpice is kept not large lest the readers should be addicted to just using the software and tempted to neglect the importance of the basic circuit theory 4 We make each example show something different from other examples so that readers can efficiently acquire the essential circuit

analysis techniques and gain insights into the various types of circuits. On the other hand, instead of repeating similar exercise problems, we make most exercise problems arouse readers' interest in practical application or help form a view for circuit application and design. 5 For representative examples, the analytical solutions are presented together with the results of MATLAB analysis close to the theory and PSpice simulation close to the experiment in the form of trinity. We are sure that this style of presentation will interest many students, attracting their attention to the topics on circuits efficiently. 6 Unlike most circuit books with a similar title, our book deals with positive feedback op amp circuits as well as negative feedback op amp circuits.

Simulation of Dynamic Systems with MATLAB and Simulink Harold Klee, Randal Allen, 2016-04-19 a seminal text covering the simulation design and analysis of a broad variety of systems using two of the most modern software packages available today, particularly adept at enabling students new to the field to gain a thorough understanding of the basics of continuous simulation in a single semester and also provides a more advanced treatment. *Circuit Analysis II* Steven T. Karris, 2003 Designed for use in a second course in circuit analysis, this text engages a full spectrum of circuit analysis related subjects ranging from the most abstract to the most practical. Featured are methods of expressing signals in terms of the elementary functions, an introduction to second order circuits and several examples of analysing electric circuits using Laplace transformation methods. Though not written explicitly to be used with MATLAB, this text provides many useful tips and strategies for MATLAB, allowing students to get the most out of the popular program. All of the information provided is designed to be covered in one semester or two quarters.

Practical Signals Theory with MATLAB Applications Richard J. Tervo, 2025-11-12 A hands on resource designed to teach the mathematics of signals and systems with MATLAB™. In this newly revised second edition of *Practical Signals Theory with MATLAB™ Applications*, Richard Tervo delivers an articulate presentation of the mathematics underlying real world engineering applications and everyday electronic devices. The new edition provides extended coverage of communication systems including digital and spread spectrum communications as well as a new introductory chapter on using MATLAB™ as a tool to visualize the mathematics of signals and systems. The text contains numerous hands on examples and expanded end of chapter exercises. It is a one stop reference for signals and systems, explaining aspects of commonplace signal types, orthogonality and signal decomposition, transformations and the graphical presentation of calculations and results. Readers will also find a solid introduction to the mathematics of continuous and discrete signals represented in time and frequency domains. Thorough coverage of the classic Fourier, Laplace and z transforms and their many applications. New end of chapter worked exercises, a variety of in line study questions with answers and easily reproducible MATLAB™ code demonstrations. Bonus material on related applications in different fields of study and a companion website designed to support additional learning. Perfect for undergraduate and graduate students of signals and systems, signals theory and related areas of electrical engineering. *Practical Signals Theory with MATLAB™ Applications* will also benefit researchers and professors in the field of system design and signal processing. Signals and

Systems with MATLAB Computing and Simulink Modeling Steven T. Karris, 2007 This text is primarily written for junior and senior undergraduates majoring in electrical and computer engineering You will need this text if you are a student or working professional seeking to learn and or review the basics of the Laplace and Z transforms the Fast Fourier Transform FFT state variables and the design of analog and digital filters Contains many real world examples completely solved in detail and verified with MATLAB computations and Simulink models

Modeling and Analysis of Dynamic Systems, Second Edition Ramin S. Esfandiari, Bei Lu, 2014-04-24 Modeling and Analysis of Dynamic Systems Second Edition introduces MATLAB Simulink and Simscape™ and then uses them throughout the text to perform symbolic graphical numerical and simulation tasks Written for junior or senior level courses the textbook meticulously covers techniques for modeling dynamic systems methods of response analysis and provides an introduction to vibration and control systems These features combine to provide students with a thorough knowledge of the mathematical modeling and analysis of dynamic systems See What's New in the Second Edition Coverage of modeling and analysis of dynamic systems ranging from mechanical to thermal using Simscape Utilization of Simulink for linearization as well as simulation of nonlinear dynamic systems Integration of Simscape into Simulink for control system analysis and design Each topic covered includes at least one example giving students better comprehension of the subject matter More complex topics are accompanied by multiple painstakingly worked out examples Each section of each chapter is followed by several exercises so that students can immediately apply the ideas just learned End of chapter review exercises help in learning how a combination of different ideas can be used to analyze a problem This second edition of a bestselling textbook fully integrates the MATLAB Simscape Toolbox and covers the usage of Simulink for new purposes It gives students better insight into the involvement of actual physical components rather than their mathematical representations

Signals and Systems with MATLAB Applications Steven T. Karris, 2003 This text contains a comprehensive discussion of continuous and discrete time signals and systems with many examples from MATLAB software used to write efficient compact programs to solve electrical and computer engineering problems of varying complexity Intended for junior and senior level electrical engineering students and for self study by working professionals it discusses Laplace transformation and circuit analysis impulse response Fourier series Z transform and the Discrete Fourier transform and FFT Solutions to all exercises are included in this revised edition

Circuits, Signals, and Systems for Bioengineers John Semmlow, 2005-03-07 Accompanying CD ROM contains MATLAB based solutions software p 1 of cover

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