

Time Response Analysis in Second Order System

RLC series circuit using MATLAB SIMULINK

Sabin Kasula

June 10, 2024

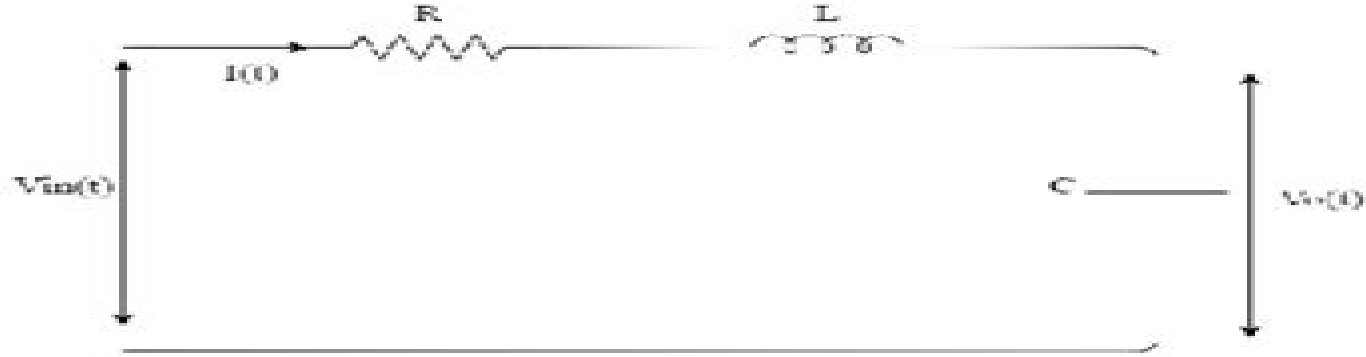


Figure 1: Series RLC



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

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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 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.

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.

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.

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

The Analysis and Design of Linear Circuits Roland E. Thomas, Albert J. Rosa, Gregory J. Toussaint, 2016-01-05 The Analysis and Design of Linear Circuits 8th Edition provides an introduction to the analysis design and evaluation of electric circuits focusing on developing the learners design intuition The text emphasizes the use of computers to assist in design and evaluation Early introduction to circuit design motivates the student to create circuit solutions and optimize designs based on real world constraints This text is an unbound three hole punched version

Electrical Circuits: A Primer JC Olivier, 2018-03-31 This new resource provides a comprehensive and concise introduction of the underpinnings and fundamentals of electrical circuits Models the limitations of models and examples are clearly explained The book examines circuits with static sources and explains how to reduce any circuit to a system of linear equations Moreover the book presents dynamic sources that exhibit transient phenomena that require the solution of linear differential equations MATLAB code is used throughout the book to help solve key problems and assist engineers in the field Additionally this hands on volume explores circuits with sinusoidal sources also known as the AC paradigm The book provides another key mathematical tool known as a phasor which are mathematical objects based on complex number theory The book emphasizes solutions for computing power interpreting power and energy and compensating electrical systems if the power factor is too low Professionals are offered design guidance throughout the book with many real world examples

Circuits, Signals, and Systems for Bioengineers John Semmlow, 2005-04-15 Approaches such as the Transfer Function and the Fourier and the Laplace transforms are important tools for bioengineers that often considered borrowed from electrical engineering This text allows bioengineering students and bioengineers the ability to foster a sense of ownership of these tools by providing them with a solid foundation in the concepts of linear systems analysis Circuits Signals and Systems for Bioengineers guides readers through the basic engineering concepts that underlie biological systems medical devices biocontrol and biosignal analysis Material important to their study and traditionally taught in an electrical engineering service course can now be embraced by bioengineers Instructive illustrations and MATLAB routines and examples are

provided throughout the book Translates important electrical engineering tools such as Fourier Transform Laplace Transform analog modeling systems modeling and other linear systems analysis techniques for bioengineering students Includes MATLAB examples and problems The 18th International Conference Interdisciplinarity in Engineering Liviu Moldovan, Adrian Gligor, 2025-03-01 This book contains research papers that were accepted for presentation at the 18th International Conference on Interdisciplinarity in Engineering INTER ENG 2024 which was held on 3 4 October 2024 in the city of Targu Mures Romania The general scope of the conference An effective digital green transition for a more competitive European industry is proposing a new approach related to the development of a new generation of smart factories grounded on the manufacturing and assembly process digitalization It is related to advance manufacturing technology lean manufacturing sustainable manufacturing additive manufacturing manufacturing tools and equipment It is a leading international professional and scientific forum of great interest for engineers and scientists who can read in this book research works contributions and recent developments as well as current practices in advanced fields of engineering

Advances in Automation, Signal Processing, Instrumentation, and Control Venkata Lakshmi Narayana Komanapalli, N. Sivakumaran, Santoshkumar Hampannavar, 2021-03-04 This book presents the select proceedings of the International Conference on Automation Signal Processing Instrumentation and Control i CASIC 2020 The book mainly focuses on emerging technologies in electrical systems IoT based instrumentation advanced industrial automation and advanced image and signal processing It also includes studies on the analysis design and implementation of instrumentation systems and high accuracy and energy efficient controllers The contents of this book will be useful for beginners researchers as well as professionals interested in instrumentation and control and other allied fields *Introduction to Electric Circuits* Richard C. Dorf, James A. Svoboda, 2010-01-07 The central theme of Introduction to Electric Circuits is the concept that electric circuits are a part of the basic fabric of modern technology Given this theme this book endeavors to show how the analysis and design of electric circuits are inseparably intertwined with the ability of the engineer to design complex electronic communication computer and control systems as well as consumer products This book is designed for a one to three term course in electric circuits or linear circuit analysis and is structured for maximum flexibility **Frontiers in Education**

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and Communication Systems Yanwen Wu,2011-11-02 This book constitutes the refereed post proceedings of the Second International Conference on High Performance Networking Computing and Communication systems ICHCC 2011 held in Singapore in May 2011 The conference was held together with the Second International Conference on Theoretical and Mathematical Foundations of Computer Science ICTMF 2011 which proceedings are published in CCIS 164 The 84 revised selected papers presented were carefully reviewed and selected for inclusion in the book The topics covered range from computational science engineering and technology to digital signal processing and computational biology to game theory and other related topics

Dorf's Introduction to Electric Circuits Richard C. Dorf,James A. Svoboda,2018-03-13 Dorf s Introduction to Electric Circuits Global Edition is designed for a one to three term course in electric circuits or linear circuit analysis The book endeavors to help students who are being exposed to electric circuits for the first time and prepares them to solve realistic problems involving these circuits Abundant design examples design problems and the How Can We Check feature illustrate the text s focus on design The Global Edition continues the expanded use of problem solving software such as PSpice and MATLAB

Advanced Intelligent Technologies for Information and Communication Kazumi Nakamatsu,Roumen Kountchev,Srikanta Patnaik,Jair M. Abe,2023-10-28 The book includes new research results of scholars from the Third International Conference on Advanced Intelligent Technologies ICAIT 2022 organized by IRNet International Academic Communication Center held during October 28 30 2022 The book covers research work from active researchers who are working on collaboration of industry and various intelligent technologies such as intelligent technologies applicable applied to manufacturing and distribution of industrial products factory automation and business The topics included are all computational intelligence techniques applicable applied to industry intelligent techniques in data science applicable applied to business and management intelligent network systems applicable applied to industrial production intelligent technologies applicable to smart agriculture and intelligent information systems for agriculture

Fundamentals of Signals and Systems Mr. Rohit Manglik,2024-07-04 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

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