Analysis of Superposition theorem
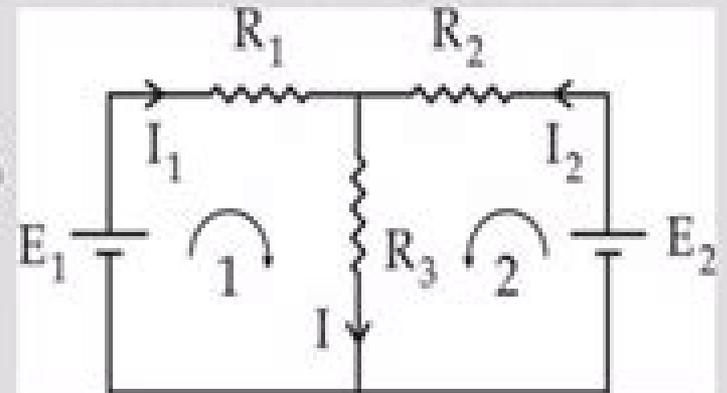
Consider the network shown. Applying Kirchhoff's voltage to the loop 1.

$$I_1R_1 + I_1R_3 + I_2R_3 = E_1$$ Since $I_1R_1 + IR_3 = E_1$ and $I_1 + I_2$

Therefore, $$I_1 = \frac{E_1 - I_2R_3}{R_1 + R_3}$$ (1)

Considering loop 2,

$$I_2R_2 + IR_3 = E_2$$ $$I_2R_2 + I_1R_3 + I_2R_3 = E_2$$

Therefore, $$I_2 = \frac{E_2 - I_1R_3}{R_2 + R_3}$$ (2)

The Network Theorem

Arthur Beiser

The Network Theorem:

Network Theory and Filter Design Vasudev K. Aatre,1986 **Principles of Microwave Circuits** Carol Gray Montgomery,Robert Henry Dicke,Edward M. Purcell,1987 Offers a detailed explanation of the development of the impedance concept and its equivalent microwave circuits Useful Network Theorems with Applications Harry E. Stockman,1989 Useful Network Theorems with Applications Harry E. Stockman,1989 **Network Analysis & Synthesis 2nd Revised Edition** Wadhwa C L, *NETWORK ANALYSIS AND SYNTHESIS* KUMAR, A. ANAND,2019-01-01 This comprehensive test 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 anand_kumar_network_analysis **Flow Networks** Michael T. Todinov,2013-01-16 Repairable flow networks are a new area of research which analyzes the repair and flow disruption caused by failures of components in static flow networks This book addresses a gap in current network research by developing the theory algorithms and applications related to repairable flow networks and networks with disturbed flows The theoretical results presented in the book lay the foundations of a new generation of ultra fast algorithms for optimizing the flow in networks after failures or congestion and the high computational speed creates the powerful possibility of optimal control of very large and complex networks in real time Furthermore the possibility for re optimizing the network flows in real time increases significantly the yield from real production networks and reduces to a minimum the flow disruption caused by failures The potential application of repairable flow networks reaches across many large and complex systems including active power networks telecommunication networks oil and gas production networks transportation networks water supply networks emergency evacuation networks and supply networks The book reveals a fundamental flaw in classical algorithms for maximising the throughput flow in networks published since the creation of the theory of flow networks in 1956 Despite the years of intensive research the classical algorithms for maximising the throughput flow leave highly undesirable directed loops of flow in the optimised networks These flow loops are associated with wastage of energy and

resources and increased levels of congestion in the optimised networks Includes theory and practical examples to build a deep understanding of the issues Written by the leading scholar and researcher in this emerging field Features powerful software tools for analysis optimization and control of repairable flow networks   Networks and Systems D. Roy Choudhury,1988 Serves As A Text For The Treatment Of Topics In The Field Of Electric Networks Which Are Considered As Foundation In Electrical Engineering For Undergraduate Students Includes Detailed Coverage Of Network Theorems Topology Analogous Systems And Fourier Transforms Employs Laplace Transform Solution Of Differential Equations Contains Material On Two Port Networks Classical Filters Passive Synthesis Includes State Variable Formulation Of Network Problems Wide Coverage On Convolution Integral Transient Response And Frequency Domain Analysis Given Digital Computer Program For Varieties Of Problems Pertaining To Networks And Systems Each Topic Is Covered In Depth From Basic Concepts Given Large Number Of Solved Problems For Better Understanding The Theory A Large Number Of Objective Type Questions And Solutions To Selected Problems Given In Appendix   Antennas and Wave Propagation G. S. N. Raju,2006 Antennas and Wave Propagation is written for the first course on the same The book begins with an introduction that discusses the fundamental concepts notations representation and principles that govern the field of antennas A separate chapter on mathematical preliminaries is discussed followed by chapters on every aspect of antennas from Maxwell s equations to antenna array analysis antenna array synthesis antenna measurements and wave propagation   *The Journal of the Institution of Electrical Engineers* Institution of Electrical Engineers,1924   *The Electrical Engineering Handbook* Wai Kai Chen,2004-11-16 The Electrical Engineer s Handbook is an invaluable reference source for all practicing electrical engineers and students Encompassing 79 chapters this book is intended to enlighten and refresh knowledge of the practicing engineer or to help educate engineering students This text will most likely be the engineer s first choice in looking for a solution extensive complete references to other sources are provided throughout No other book has the breadth and depth of coverage available here This is a must have for all practitioners and students The Electrical Engineer s Handbook provides the most up to date information in Circuits and Networks Electric Power Systems Electronics Computer Aided Design and Optimization VLSI Systems Signal Processing Digital Systems and Computer Engineering Digital Communication and Communication Networks Electromagnetics and Control and Systems About the Editor in Chief Wai Kai Chen is Professor and Head Emeritus of the Department of Electrical Engineering and Computer Science at the University of Illinois at Chicago He has extensive experience in education and industry and is very active professionally in the fields of circuits and systems He was Editor in Chief of the IEEE Transactions on Circuits and Systems Series I and II President of the IEEE Circuits and Systems Society and is the Founding Editor and Editor in Chief of the Journal of Circuits Systems and Computers He is the recipient of the Golden Jubilee Medal the Education Award and the Meritorious Service Award from the IEEE Circuits and Systems Society and the Third Millennium Medal from the IEEE Professor Chen is a fellow of the IEEE and the American

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