

Q1. (1) Connect the AM modulator/demodulator circuit shown in Fig.1. using Multisim (2) Adjust the two channels such that: time base scale 500 μ s, channel A and B 1 V/Div. (3) Draw the signals (4) Which input signal is the carrier?



Fig. 1

Modulator Using Multisim

Anthony S. Fauci



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Modulation Techniques Zulkifli bin Che Din, 2023-10-01 *Modulation Techniques* is a book that introduces readers to communication systems. This e-book covers the principles of communications as well as analog and digital modulation techniques which is design to Diploma Electrical Communication.

Advanced Fractal Graph Theory and Applications
P. Tharaniya, G. Jayalalitha, Pethuru Raj, B. Sundaravadivazhagan, 2024-12-30 This book explores the dynamic interplay between fractals and graph theory two powerful mathematical tools with vast applications. It presents a strategic combination and the synergistic use of these disciplines to address real world problems and challenges. The book begins with an introduction to the basic concepts of fractals and graph theory and goes on to explore the applications in various domains including natural phenomena modeling scheduling and network optimisation. This book illustrates the innovative ways fractals and graph theory can be combined laying the groundwork for future applications across various industries. Introduces the fundamental concepts and principles of both fractals and graph theory in detail making it accessible to a broad audience including those new to these topics. Explores practical applications in image processing network optimisation social network analysis and more demonstrating the real world impact of these mathematical tools. Analyses advanced techniques in graph theory such as matching domination and colouring with practical examples and case studies. Highlights the latest research advancements in fractal graph theory showcasing its potential for future developments and applications. This book is for students researchers and professionals in mathematics computer science engineering and related fields.

Technological Developments in Education and Automation Magued Iskander, Vikram Kapila, Mohammad A. Karim, 2010-01-30 *Technological Developments in Education and Automation* includes set of rigorously reviewed world class manuscripts dealing with the increasing role of technology in daily lives including education and industrial automation. *Technological Developments in Education and Automation* contains papers presented at the International Conference on Industrial Electronics Technology Automation and the International Conference on Engineering Education Instructional Technology Assessment and E learning which were part of the International Joint Conferences on Computer Information and Systems Sciences and Engineering.

Circuits Fawwaz Tayssir Ulaby, Michel M. Maharbiz, 2010 *Mastering Electronics Workbench* John Adams, 2001-04-30 *Electronic Workbench EWB* software has forever changed the face of electronics. Including mixed mode circuit simulation schematic capture and PCB layout software it provides a virtual bench for learning experimenting with and simulating electronics including mixed mode circuit simulation schematic capture and PCB layout software. *Mastering Electronics Workbench* by John Adams is your guide to successfully using *Electronics Workbench*. You get detailed explanations of each component instrument and function. You learn how to install the program how to use it to create circuit simulations and analysis models and how to make complex designs. This guide is also packed with complete projects for hobbyists technicians and engineers each designed to help you learn the complexities of the program. The book covers

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