

COMPUTER AIDED SIMULATION AND ANALYSIS LAB MANUAL

COMPUTER AIDED SIMULATION AND ANALYSIS LABORATORY

LIST OF EXPERIMENTS

A.	Simulation	15
	Simulation of Air conditioning system with condenser temperature and evaporator temperatures as input to get COP using C / MAT Lab.	
	Simulation of Hydraulic / Pneumatic cylinder using C / MAT Lab.	
	Simulation of cam and follower mechanism using C / MAT Lab.	
	Analysis (Simple Treatment only)	30
	Stress analysis of a plate with a circular hole.	
	Stress analysis of rectangular L bracket	
	Stress analysis of an axi-symmetric component	
	Stress analysis of beams (Cantilever, Simply supported, Fixed ends)	
	Mode frequency analysis of a 2 D component	
	Mode frequency analysis of beams (Cantilever, Simply supported, Fixed ends)	
	Harmonic analysis of a 2D component	
	Thermal stress analysis of a 2D component	
	Conductive heat transfer analysis of a 2D component	
	Convective heat transfer analysis of a 2D component	

TOTAL : 45

LIST OF EQUIPMENTS

(for a batch of 30 students).

	Computer System	30
	17" VGA Color Monitor	
	Pentium IV Processor	
	40 GB HDD	
	256 MB RAM	
	Color Desk Jet Printer	01
	Software	
	ANSYS Version 7 or latest	15 licenses
	C / MATLAB	15 licenses

Lab Manual For Computer Aided Testing

L Cohen



Lab Manual For Computer Aided Testing:

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Table of Contents Lab Manual For Computer Aided Testing

1. Understanding the eBook Lab Manual For Computer Aided Testing
 - The Rise of Digital Reading Lab Manual For Computer Aided Testing
 - Advantages of eBooks Over Traditional Books
2. Identifying Lab Manual For Computer Aided Testing
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Lab Manual For Computer Aided Testing
 - User-Friendly Interface
4. Exploring eBook Recommendations from Lab Manual For Computer Aided Testing
 - Personalized Recommendations
 - Lab Manual For Computer Aided Testing User Reviews and Ratings
 - Lab Manual For Computer Aided Testing and Bestseller Lists
5. Accessing Lab Manual For Computer Aided Testing Free and Paid eBooks
 - Lab Manual For Computer Aided Testing Public Domain eBooks
 - Lab Manual For Computer Aided Testing eBook Subscription Services
 - Lab Manual For Computer Aided Testing Budget-Friendly Options
6. Navigating Lab Manual For Computer Aided Testing eBook Formats
 - ePub, PDF, MOBI, and More
 - Lab Manual For Computer Aided Testing Compatibility with Devices
 - Lab Manual For Computer Aided Testing Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lab Manual For Computer Aided Testing
 - Highlighting and Note-Taking Lab Manual For Computer Aided Testing
 - Interactive Elements Lab Manual For Computer Aided Testing
8. Staying Engaged with Lab Manual For Computer Aided Testing

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Lab Manual For Computer Aided Testing
- 9. Balancing eBooks and Physical Books Lab Manual For Computer Aided Testing
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lab Manual For Computer Aided Testing
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Lab Manual For Computer Aided Testing
 - Setting Reading Goals Lab Manual For Computer Aided Testing
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Lab Manual For Computer Aided Testing
 - Fact-Checking eBook Content of Lab Manual For Computer Aided Testing
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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