

Composition/Resolution of Forces

Two forces often act simultaneously on a body at the same point. The angle between the two points is between 0 and 180°. The resultant of the two forces is a single force that could be substituted for the components without altering their effect. The opposite of this force is called the equilibrant force because it puts the components and their effect (resultant) into a state of equilibrium. This equilibrant is equal in magnitude and opposite (180°) to the resultant force.

Objective: After completing this lab you better be able to calculate the equilibrant of a series of forces (vectors) acting on an object.

Procedure: Arrange the force board (force bar) so that the three spring scales have at least 1/3 extension. Place a blank piece of paper under the scales and secure it firmly (tape would be better than nails!) Mark the center of the three forces and draw a vector carefully in the direction of each of the three forces (make sure you have an origin, xy coordinate, so you can measure angles). Mark the force vectors A, B and C (Maybe you should take a break cuz this was really hard- not!) Circle C and consider it your *equilibrant*. Remove the paper and extend the lines until they intersect at a single point (If they don't- do it again until they do). Carefully measure the angles (and record them) and construct a point diagram using these angles and scale values.

Calculations:

1. Draw (graphically) a vector diagram (applying the rules of vector addition) using the A and B values as components and then draw your resultant.
2. Construct an equilibrant and record its value.
3. Determine the resultant mathematically and record its value. Record the value of the equilibrant (same magnitude as the resultant but 180° opposite).
4. Compare (Absolute and Relative Error) the "C" scale value of your equilibrant to your graphically and mathematically (both magnitude and angle) values. Consider the scale value to be accepted value.

DATA TABLE

Trial	"A" scale	"B" scale	"C" scale	Resultant graphical	Resultant math.	Equilibrant graphical	Equilibrant math.

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Huangqi Zhang



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Table of Contents Composition And Resolution Of Forces Lab Report

1. Understanding the eBook Composition And Resolution Of Forces Lab Report
 - The Rise of Digital Reading Composition And Resolution Of Forces Lab Report
 - Advantages of eBooks Over Traditional Books
2. Identifying Composition And Resolution Of Forces Lab Report
 - 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 Composition And Resolution Of Forces Lab Report
 - User-Friendly Interface
4. Exploring eBook Recommendations from Composition And Resolution Of Forces Lab Report

- Personalized Recommendations
 - Composition And Resolution Of Forces Lab Report User Reviews and Ratings
 - Composition And Resolution Of Forces Lab Report and Bestseller Lists
5. Accessing Composition And Resolution Of Forces Lab Report Free and Paid eBooks
 - Composition And Resolution Of Forces Lab Report Public Domain eBooks
 - Composition And Resolution Of Forces Lab Report eBook Subscription Services
 - Composition And Resolution Of Forces Lab Report Budget-Friendly Options
 6. Navigating Composition And Resolution Of Forces Lab Report eBook Formats
 - ePub, PDF, MOBI, and More
 - Composition And Resolution Of Forces Lab Report Compatibility with Devices
 - Composition And Resolution Of Forces Lab Report Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Composition And Resolution Of Forces Lab Report
 - Highlighting and Note-Taking Composition And Resolution Of Forces Lab Report
 - Interactive Elements Composition And Resolution Of Forces Lab Report
 8. Staying Engaged with Composition And Resolution Of Forces Lab Report
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Composition And Resolution Of Forces Lab Report
 9. Balancing eBooks and Physical Books Composition And Resolution Of Forces Lab Report
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Composition And Resolution Of Forces Lab Report
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Composition And Resolution Of Forces Lab Report
 - Setting Reading Goals Composition And Resolution Of Forces Lab Report
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Composition And Resolution Of Forces Lab Report

- Fact-Checking eBook Content of Composition And Resolution Of Forces Lab Report
 - 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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