EXPERIMENT NO. 1 (B)

AIM: VERIFICATION OF TRIANGLE LAW OF FORCES

<u>APPRATUS:-</u> Gravesand's apparatus complete with two freely moving guide pulleys, weights, thread, a small central ring, white paper sheet, three scale pans, tape, a mirror strip, set squares and pencil.

IHEORY: The triangle law of forces states that if two forces acting on a particle can be represented in magnitude and direction by the two side of a triangle taken in order then their resultant will be given by the third side of the triangle taken in the opposite direction.

PROCEDURE:

- Fix the paper sheet centrally on the board.
- Take suitable length of thread and pass it over two pulleys, the ends
 of thread are to be attached to pans which are to carry weights.
- III) Take another piece of thread and tie to the middle of first thread which is to carry another weight.
- Place the weights in the pans in such a way that the knot-comes nearly in the middle of the paper.
- For ensuring free movement of pulleys, displace the pans from their original positions.
- VI) Mark the directions of the strings on the paper sheet with the help of a strip of mirror which is put under the string length – wise one by one to get points for the purpose.

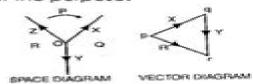


Fig. LW-3

- VII) Note the magnitude of forces and mark the lines of forces.
- VIII) Remove the paper from the apparatus and produce the forces line to meet at point O.
- IX) Name the forces, X, Y, Z, according the Bow's Notation as PQ, QR, and RS.
- X) Choose a suitable scale and draw the line Pq parallel to force X and cut it equal to the magnitude of X according to the scale chosen. Now from point q draw the line qr parallel to force Y according to the same scale. Find the magnitude of rp i.e. R which

Laboratory Manual For Applied Mechanics

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Table of Contents Laboratory Manual For Applied Mechanics

- 1. Understanding the eBook Laboratory Manual For Applied Mechanics
 - The Rise of Digital Reading Laboratory Manual For Applied Mechanics
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Laboratory Manual For Applied Mechanics
 - 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 Laboratory Manual For Applied Mechanics
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Laboratory Manual For Applied Mechanics
 - Personalized Recommendations
 - Laboratory Manual For Applied Mechanics User Reviews and Ratings
 - Laboratory Manual For Applied Mechanics and Bestseller Lists
- 5. Accessing Laboratory Manual For Applied Mechanics Free and Paid eBooks
 - Laboratory Manual For Applied Mechanics Public Domain eBooks
 - Laboratory Manual For Applied Mechanics eBook Subscription Services
 - Laboratory Manual For Applied Mechanics Budget-Friendly Options

- 6. Navigating Laboratory Manual For Applied Mechanics eBook Formats
 - o ePub, PDF, MOBI, and More
 - Laboratory Manual For Applied Mechanics Compatibility with Devices
 - Laboratory Manual For Applied Mechanics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Laboratory Manual For Applied Mechanics
 - Highlighting and Note-Taking Laboratory Manual For Applied Mechanics
 - Interactive Elements Laboratory Manual For Applied Mechanics
- 8. Staying Engaged with Laboratory Manual For Applied Mechanics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Laboratory Manual For Applied Mechanics
- 9. Balancing eBooks and Physical Books Laboratory Manual For Applied Mechanics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Laboratory Manual For Applied Mechanics
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Laboratory Manual For Applied Mechanics
 - $\circ\,$ Setting Reading Goals Laboratory Manual For Applied Mechanics
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Laboratory Manual For Applied Mechanics
 - Fact-Checking eBook Content of Laboratory Manual For Applied Mechanics
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

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