

(1) Centroid (x_c, y_c):

i	a_i	y_i	$A_i y_i$
1	300	45	13500
2	200	20	4000
Σ	500		17500

$$y_c = \Sigma A_i y_i / \Sigma A_i = 26.82 \text{ mm}$$

$$x_c = \frac{\Sigma A_i x_i}{\Sigma A_i}$$

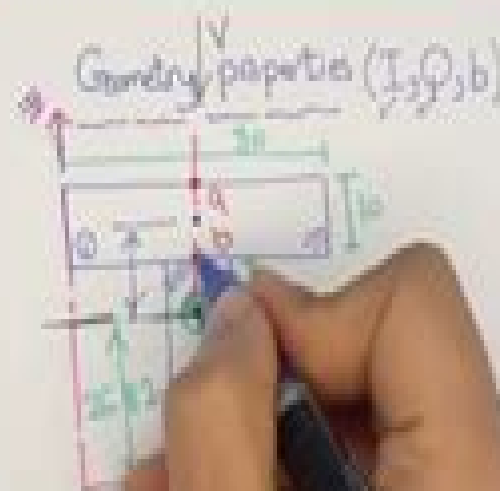
$$\begin{aligned} (2) I &= \Sigma I_i + A_i d_i^2 \\ &= \left(\frac{1}{12} \cdot 300 \cdot 10^3 + (300 \cdot 18.18^2) \right) + \\ &\quad \left(\frac{1}{12} \cdot 200 \cdot 4^3 + (200 \cdot 6.82^2) \right) \\ &= 245.55 \text{ cm}^4 \end{aligned}$$

$$(3) Q = \Sigma A_i \bar{y}_i$$

$$Q_x = 0, Q_y = 0$$

$$\begin{aligned} Q_b &= \Sigma A_i \bar{y}_i \\ &= 300 \cdot 18.18 \\ &= 5454 \text{ mm} \end{aligned}$$

$$\begin{aligned} Q_c &= \Sigma A_i \bar{x}_i \\ &= 2682 \\ &= 7198 \end{aligned}$$



b_b

Guide To Stress Analysis

M Woodhall



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Table of Contents Guide To Stress Analysis

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

6. Navigating Guide To Stress Analysis eBook Formats
 - ePub, PDF, MOBI, and More
 - Guide To Stress Analysis Compatibility with Devices
 - Guide To Stress Analysis Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Guide To Stress Analysis
 - Highlighting and Note-Taking Guide To Stress Analysis
 - Interactive Elements Guide To Stress Analysis
8. Staying Engaged with Guide To Stress Analysis
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Guide To Stress Analysis
9. Balancing eBooks and Physical Books Guide To Stress Analysis
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Guide To Stress Analysis
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Guide To Stress Analysis
 - Setting Reading Goals Guide To Stress Analysis
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Guide To Stress Analysis
 - Fact-Checking eBook Content of Guide To Stress Analysis
 - 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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