

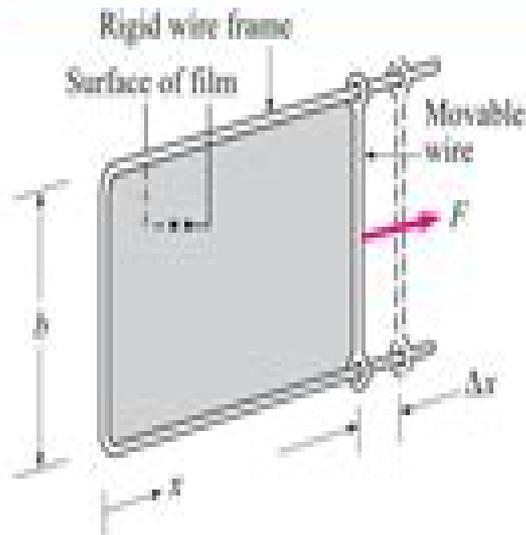
Surface Tension

Surface tension (σ) is a property that results from the attractive forces between molecules.

$$\sigma = N/m \text{ or } \text{lb/ft}$$

This effect is also called **surface energy** and is expressed in equivalent unit of

$$N.m/m^2 \text{ or } J/m^2$$



The figure shows a liquid film stretched with a U-shaped wire, and the forces acting on the movable wire of length b .

$$F = 2b\sigma_s$$

$$\sigma_s = \frac{F}{2b}$$



Surface Mechanics

Michael Rajnik



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Table of Contents Surface Mechanics

1. Understanding the eBook Surface Mechanics
 - The Rise of Digital Reading Surface Mechanics
 - Advantages of eBooks Over Traditional Books
2. Identifying Surface 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 Surface Mechanics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Surface Mechanics

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

- Fact-Checking eBook Content of Surface Mechanics
 - 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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