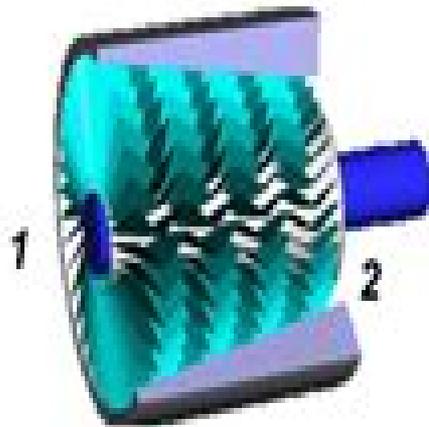


Conservation of Energy

(Specific form)



$$w = \text{Work} = p_2 v_2 - p_1 v_1 + w_{sh}$$

$$h = \text{Enthalpy} = e + pv$$

$$e = \text{Internal Energy}$$

$$q = \text{Heat Flow}$$

$$u = \text{velocity}$$

$$k = \text{Kinetic Energy} = \frac{u^2}{2}$$

$$v = \text{volume}$$

$$p = \text{pressure}$$

$$w_{sh} = \text{shaft work}$$

First Law of Thermodynamics:

$$e_2 - e_1 + k_2 - k_1 = q - w_{sh} - p_2 v_2 + p_1 v_1$$

$$e_2 + p_2 v_2 - e_1 - p_1 v_1 \left(\frac{u^2}{2} \right)_2 - \left(\frac{u^2}{2} \right)_1 = q - w_{sh}$$

$$h_2 + (u^2/2)_2 - h_1 - (u^2/2)_1 = q - w_{sh}$$

define: $h + (u^2/2) = h_t = \text{Total Enthalpy}$

$$h_{t2} - h_{t1} = q - w_{sh}$$

The Energy Conservation Papers

Arturo Cuomo



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Table of Contents The Energy Conservation Papers

1. Understanding the eBook The Energy Conservation Papers
 - The Rise of Digital Reading The Energy Conservation Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying The Energy Conservation Papers
 - 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 The Energy Conservation Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from The Energy Conservation Papers
 - Personalized Recommendations
 - The Energy Conservation Papers User Reviews and Ratings
 - The Energy Conservation Papers and Bestseller Lists
5. Accessing The Energy Conservation Papers Free and Paid eBooks

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