

HYDRAULICS

$$\rho = \frac{m}{v} : \frac{kg}{m^3} \text{ Density}$$

$$V_s = \frac{1}{\rho} : \frac{m^3}{kg} \text{ Specific Volume}$$

$$\gamma = \frac{W}{v} = \rho g : \frac{N}{m^3} \text{ Unit Weight}$$

$$G_s = \frac{\rho_s}{\rho_w} = \frac{\rho_s}{\rho_w} = \frac{\gamma_s}{\gamma_w} \text{ Specific gravity}$$

water at 4°C
 $\gamma = 62.5 \text{ lb/ft}^3 = 9.81 \text{ kN/m}^3$
 $\rho = 1.94 \text{ slugs/ft}^3 = 1000 \text{ kg/m}^3$
 $s = 1$

$$\mu = \frac{\tau}{\frac{du}{dy}} : \text{po} \cdot \text{sec Absolute Viscosity}$$

where
 $\tau = \text{lb/ft}^2 \text{ or Pa}$
 $\mu = \text{lb} \cdot \text{sec/ft}^2 \text{ or Pa} \cdot \text{sec}$
 $y = \text{ft or m}$
 $U = \text{ft/s or m/s}$

$$\nu = \frac{\mu}{\rho} : \text{m}^2/\text{s Kinetic Viscosity}$$

where
 $\mu = \text{Pa} \cdot \text{sec}$
 $\rho = \text{kg/m}^3$
 note:
 1 poise = 1 dyne · s/cm²
 1 stroke = 0.0001 m²/s
 1 dyne = 10⁻⁵ N

$$p = \frac{4\sigma}{d} : \frac{N}{m} \text{ Surface Tension } \sigma$$

$$h = \frac{4\sigma \cos \theta}{\gamma d} : \text{m Capillary}$$

$$h = \frac{4\sigma}{\gamma d} : \text{m Capillary (non circular)}$$

$$h = \frac{2\sigma \cos \theta}{\rho g r} : \text{m Capillary (tube)}$$

$$I_g = \frac{bh^3}{36} : \text{Triangle}$$

Flow rate

$$Q = Av : \text{Volume flow rate}$$

$$M = \rho Q : \text{Mass flow rate}$$

$$W = \gamma Q : \text{Weight flow rate}$$

where

$$Q = \text{discharge} : \text{m}^3/\text{s}$$

$$A = \text{cross-sectional Area} : \text{m}^2$$

$$v = \text{velocity} : \text{m/s}$$

$$\rho = \text{density} : \text{kg/m}^3$$

$$\gamma = \text{weight density} : \text{N/m}^3$$

$$z : \text{Elevation Head}$$

$$E_s = \frac{\Delta P}{\frac{\Delta V}{V}} : \text{MPa Bulk Modulus}$$

$$\beta = \frac{1}{E_s} : \frac{1}{\text{MPa}} \text{ Compressibility}$$

$$p = \frac{P}{RT} : \text{Ideal Gas}$$

where

$$P = \text{absolute Pressure} : \text{Pa}$$

$$R = \text{J/kg} \cdot ^\circ\text{K}$$

$$T = ^\circ\text{K}$$

$$R = 287 \text{ J/kg} \cdot ^\circ\text{K} : 1.716 \text{ lb} \cdot \text{ft/slug} \cdot ^\circ\text{K}$$

$$^{\circ}\text{K} = ^{\circ}\text{C} + 273 = ^{\circ}\text{F} + 460$$

$$\frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2} : \text{New Ideal Gas}$$

$$P_1 V_1 = P_2 V_2 : \text{Isothermal}$$

$$\frac{V_1}{T_1} = \frac{V_2}{T_2} : \text{Isobaric}$$

$$C = \sqrt{\frac{E_s}{\rho}} = \sqrt{\frac{1}{\beta \rho}} : \text{Pressure Disturbance}$$

$$P_{abs} = P_{gauge} + P_{atm} \text{ Pressure abs}$$

$$P_{atm} = 101.325 \text{ kPa}$$

$$p = \frac{F}{A} : \text{stress formula}$$

$$h = \frac{p}{\gamma} : \text{m Pressure Head}$$

$$F = pA : \text{N force on plane surface}$$

$$F = \gamma \bar{h} A \text{ Force}$$

$$\bar{h} = \text{distance from centroid}$$

$$F = pA : \text{N force on plane surface}$$

$$I_g = \frac{bh^3}{12} : \text{Triangle}$$

$$Q_1 = Q_2 = Q_3$$

$$A_1 v_1 = A_2 v_2 = A_3 v_3 : \text{Incompressible}$$

$$\rho_1 A_1 v_1 = \rho_2 A_2 v_2 = \rho_3 A_3 v_3 : \text{Compressible}$$

$$\gamma_1 A_1 v_1 = \gamma_2 A_2 v_2 = \gamma_3 A_3 v_3 : \text{Compressible}$$

$$\frac{v^2}{2g} : \text{Velocity Head}$$

$$\frac{p}{\gamma} : \text{Pressure Head}$$

$$E = \frac{v^2}{2g} + \frac{p}{\gamma} + z : \text{Total Head}$$

$$T = \frac{PD}{2} : \text{Tensile Force}$$

$$s = \frac{PD}{2t} : \text{Tensile (thickness)}$$

$$P = \gamma_w h : \text{Kpa Pressure}$$

$$Bf = W : \text{Bouyancy Force}$$

$$\gamma V = W$$

$$Bf = W_{obj} + W_{applied} : \text{Total BF}$$

$$\tan \theta = \frac{a}{g} : \text{Horizontal}$$

$$\tan \theta = \frac{a_h}{g \pm a_v} : \text{Inclined}$$

$$p = \delta h \left(1 \pm \frac{a}{g} \right) : \text{Vertical}$$

Note:

downward -
 upward +
 acceleration +
 deceleration -

Rotating Vessels

$$y = \frac{\omega^2 r^2}{2g} : (\text{radius})$$

$$y = \frac{\omega^2 x^2}{2g} : (x \text{ is given})$$

where

$$\omega = \text{Angular velocity (rpm)}$$

$$y = \text{height}$$

note

$$1 \text{ rev} = 2\pi \text{ rad}$$

$$1 \frac{\text{rad}}{\text{sec}} = \frac{30}{\pi} \text{ rpm}$$

$$P = Q\gamma E : \text{Power}$$

$$\eta = \frac{\text{Output}}{\text{Input}} \times 100\% : \text{Efficiency}$$

note

$$1 \text{ hp} = 746 \text{ Watts} = 550 \text{ ft} \cdot \text{lb/sec}$$

$$1 \text{ watt} = 1 \text{ N} \cdot \text{m/s} = 1 \text{ joules/sec}$$

$$RN = \frac{VD}{\nu} : \text{Reynolds Number}$$

Where

$$V = \text{Velocity}$$

$$D = \text{inside Diameter}$$

$$\nu = \text{kinetic Density}$$

$$RN = \frac{VD}{\nu}$$

where

$$\rho = \text{density}$$

$$\mu = \text{dynamic viscosity}$$

note

$$< 2100 - \text{Laminar}$$

$$> 2100 - \text{turbulent}$$

Hidrolic Engineering Formulas

D Keegan



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Hidrolic Engineering Formulas: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have charmed audiences this year. Hidrolic Engineering Formulas : Colleen Hoovers "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and thrilling novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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Table of Contents Hidrolic Engineering Formulas

1. Understanding the eBook Hidrolic Engineering Formulas
 - The Rise of Digital Reading Hidrolic Engineering Formulas
 - Advantages of eBooks Over Traditional Books
2. Identifying Hidrolic Engineering Formulas
 - 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 Hidrolic Engineering Formulas
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hidrolic Engineering Formulas
 - Personalized Recommendations
 - Hidrolic Engineering Formulas User Reviews and Ratings
 - Hidrolic Engineering Formulas and Bestseller Lists
5. Accessing Hidrolic Engineering Formulas Free and Paid eBooks
 - Hidrolic Engineering Formulas Public Domain eBooks
 - Hidrolic Engineering Formulas eBook Subscription Services
 - Hidrolic Engineering Formulas Budget-Friendly Options
6. Navigating Hidrolic Engineering Formulas eBook Formats
 - ePub, PDF, MOBI, and More
 - Hidrolic Engineering Formulas Compatibility with Devices
 - Hidrolic Engineering Formulas Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hidrolic Engineering Formulas
 - Highlighting and Note-Taking Hidrolic Engineering Formulas
 - Interactive Elements Hidrolic Engineering Formulas
8. Staying Engaged with Hidrolic Engineering Formulas

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Hidrolic Engineering Formulas
- 9. Balancing eBooks and Physical Books Hidrolic Engineering Formulas
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hidrolic Engineering Formulas
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hidrolic Engineering Formulas
 - Setting Reading Goals Hidrolic Engineering Formulas
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hidrolic Engineering Formulas
 - Fact-Checking eBook Content of Hidrolic Engineering Formulas
 - 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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