

Lesson 02D

Hydraulic Jack
Analysis

Equations for
analysis of a
hydraulic jack

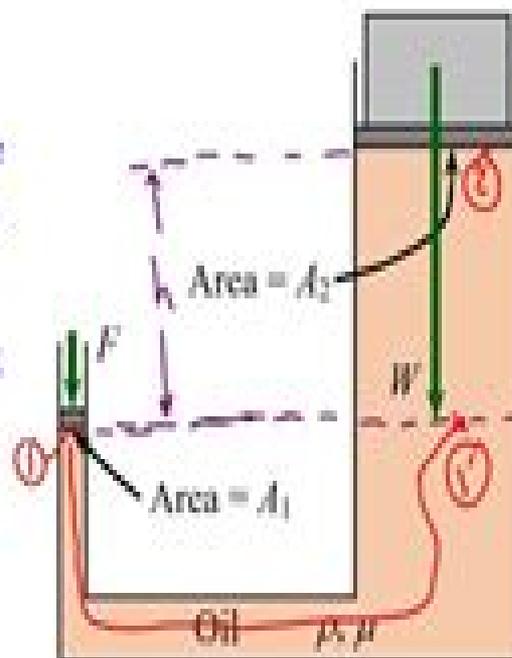
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Example: Hydraulic Jack

Given: A hydraulic jack uses an oil with specific gravity 0.765 to lift an object of mass 1510 kg. The piston area A_1 on the pump side is 0.562 cm^2 and the piston area A_2 on the lift side is 421 cm^2 . After pumping for a while, the lift-side piston is 1.65 m higher than the pump piston.

To do: Calculate the force F required to hold the object at the given elevation.

Solution:



$$P_1 = P_2$$

Eg of hydrostatics

$$P_{\text{below}} = P_{\text{above}} + \rho g h$$

$$P_1 = P_2 + \rho g h$$

$$W = P_2 A_2 \rightarrow P_2 = \frac{W}{A_2}$$

$$F = \left(\frac{W}{A_2} + \rho g h \right) A_1$$

Hydraulic Service Jack Strangth Analysis Design

Rachel Sandford



Hydraulic Service Jack Strangth Analysis Design:

Reviewing **Hydraulic Service Jack Strangth Analysis Design**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Hydraulic Service Jack Strangth Analysis Design**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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