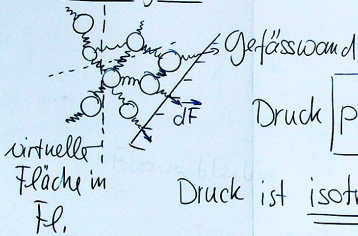


Hydrostatik

Der hydrostatische Druck p

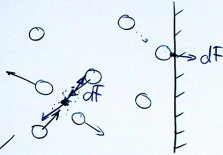
z.B. Flüssigkeit



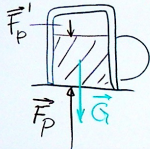
Druck $p = \frac{\sum dF}{A}$

Druck ist isotrop! $[p] = \frac{N}{m^2} = Pa$

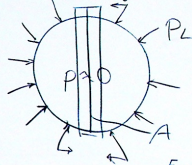
Der Luftdruck (Gase)



Expt.: Bierglas



Magdeburger Halbkugeln



$P_L \approx 1 \text{ bar} = 10^5 \text{ Pa}$
 $A \approx 100 \text{ cm}^2$
 $F = P_L A = 10^3 \text{ N} \approx 100 \text{ kg}$