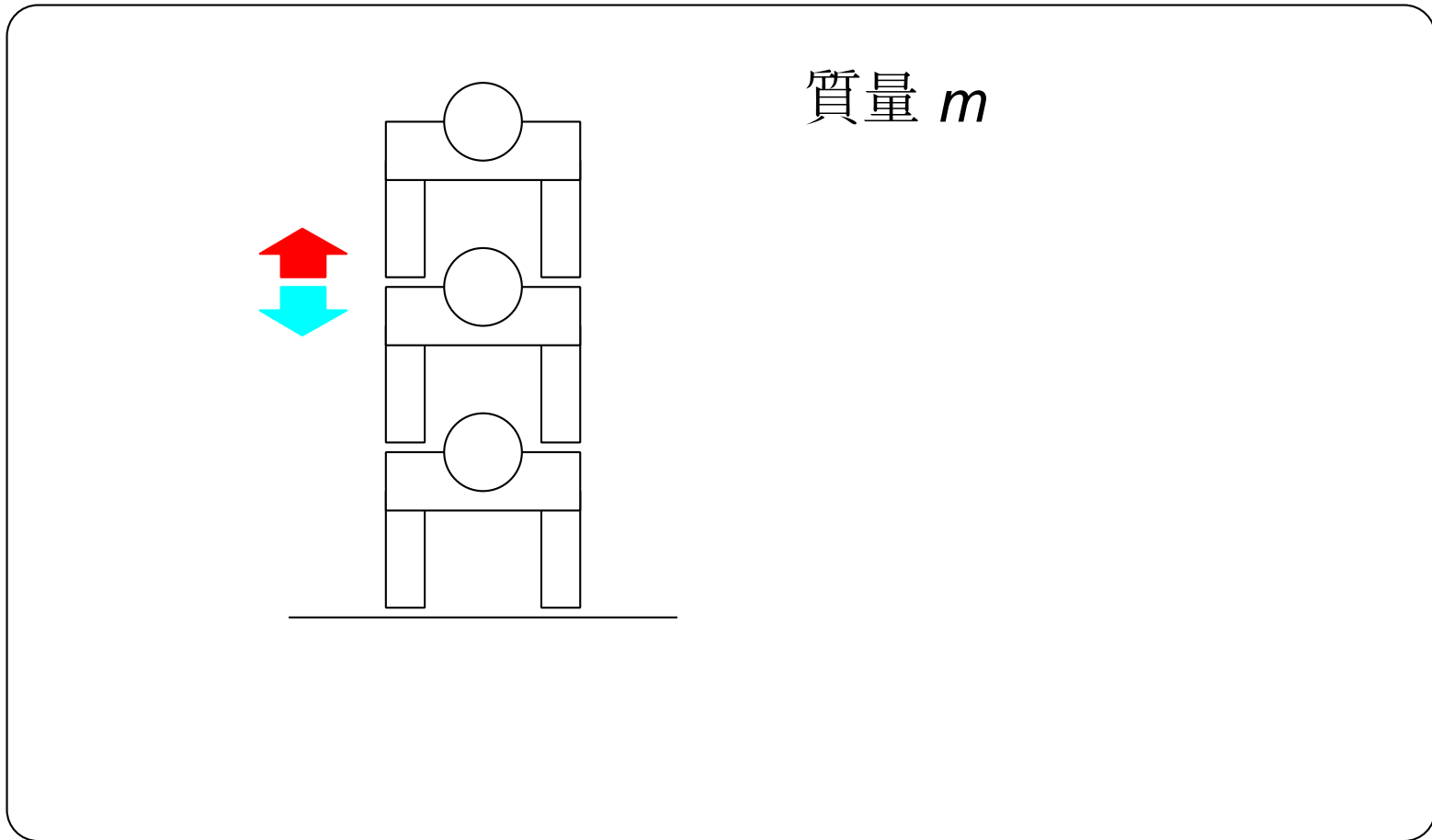


# 実験6 静力学平衡

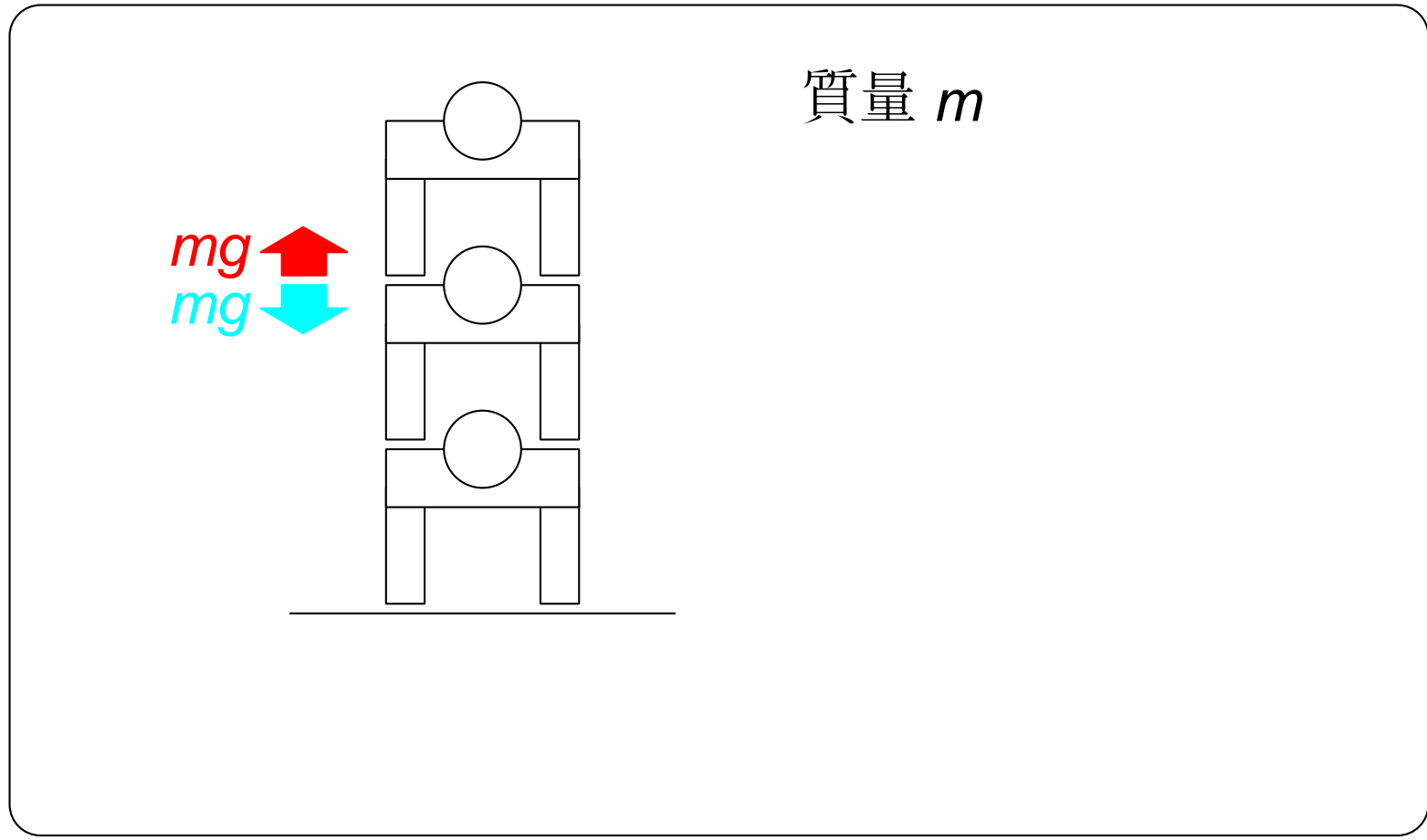
森厚

学芸大学・地学

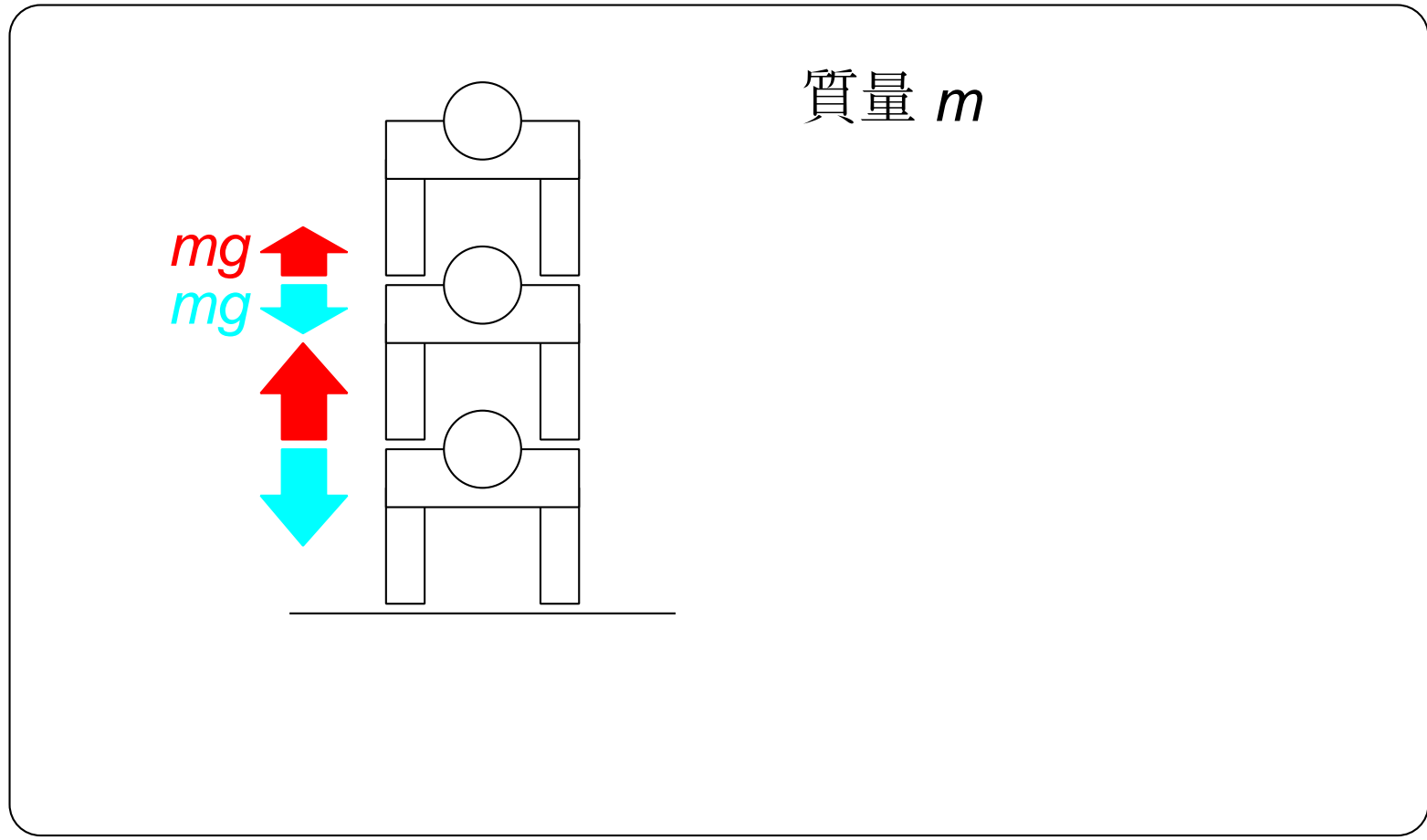
# 静力学平衡



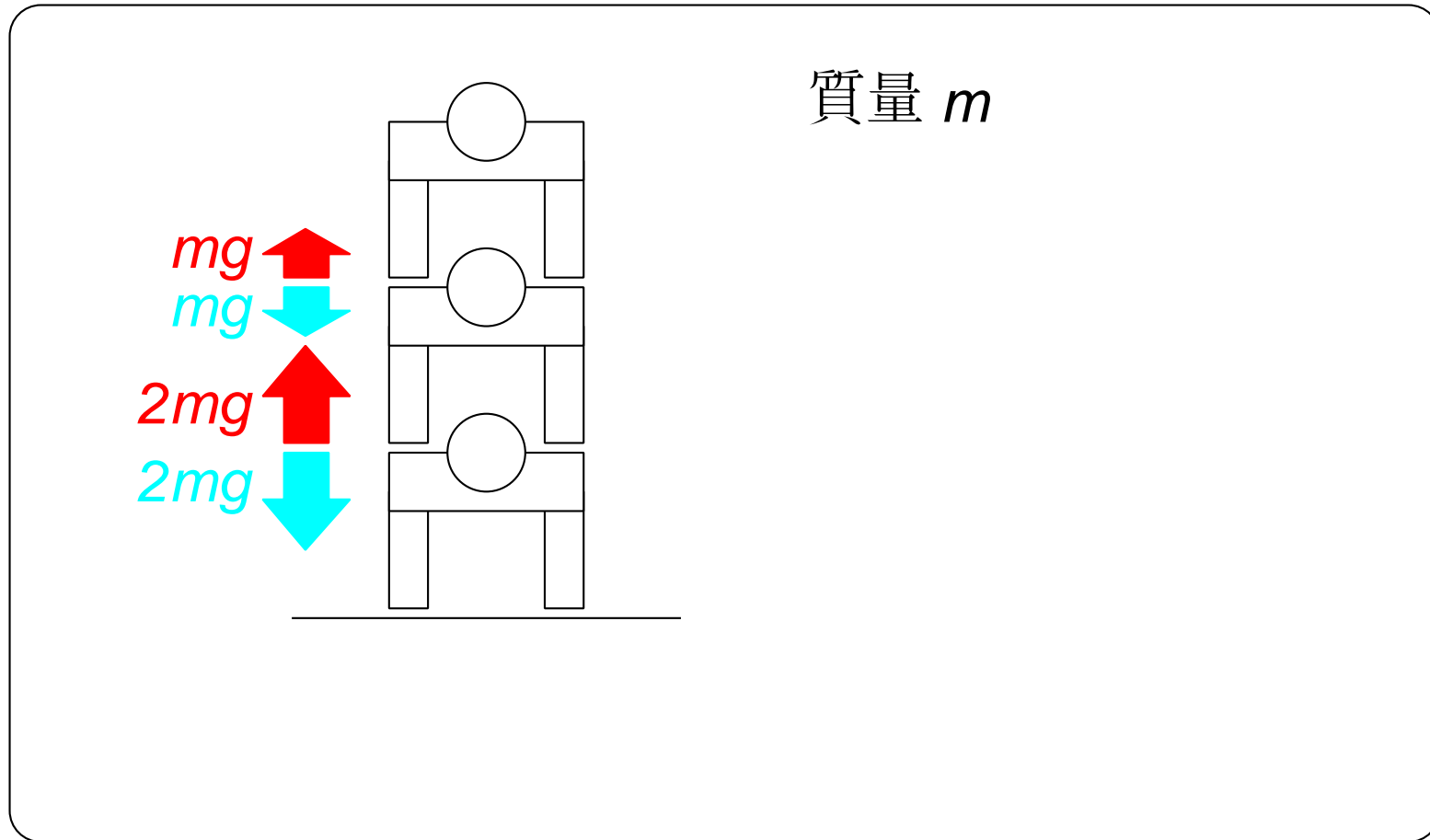
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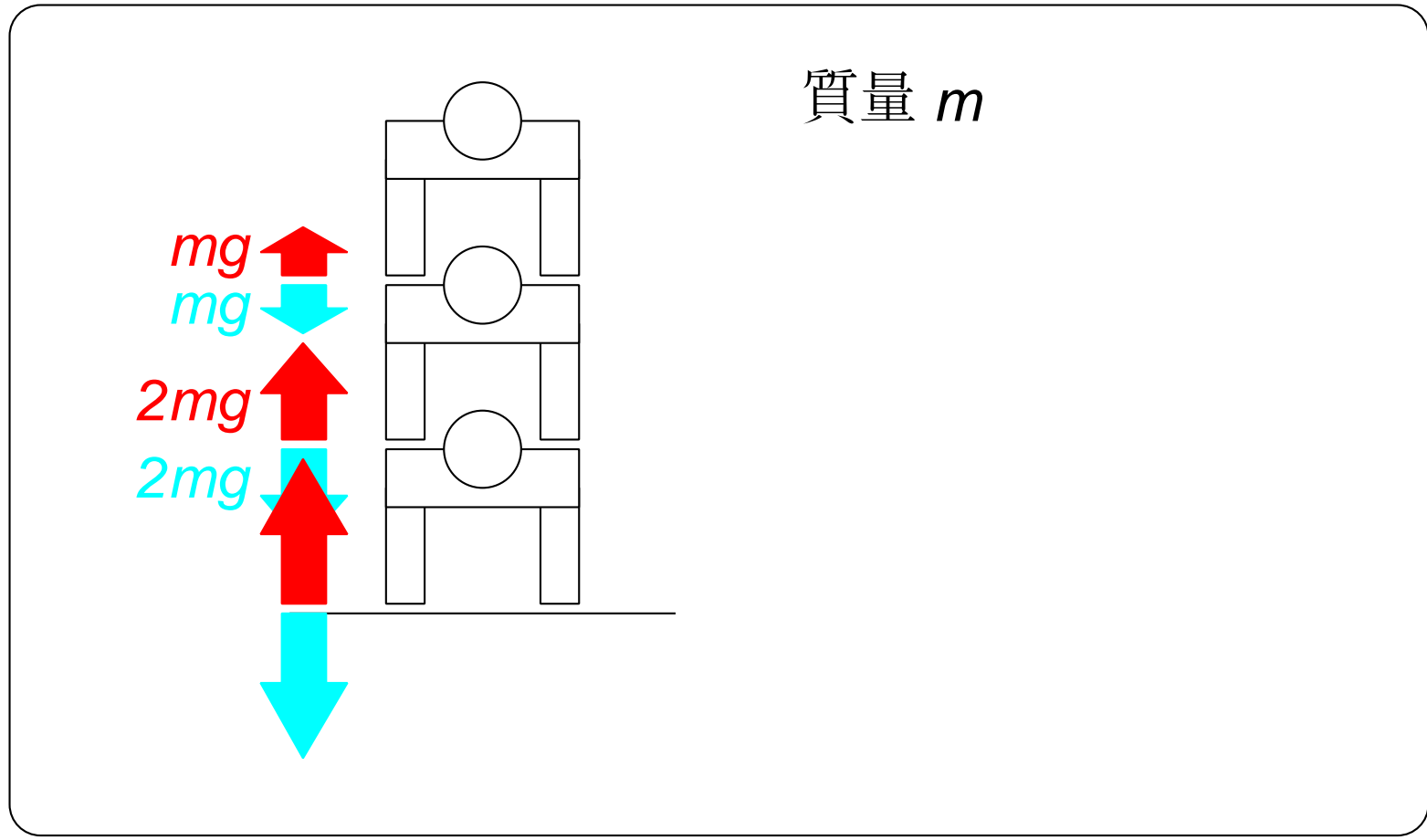
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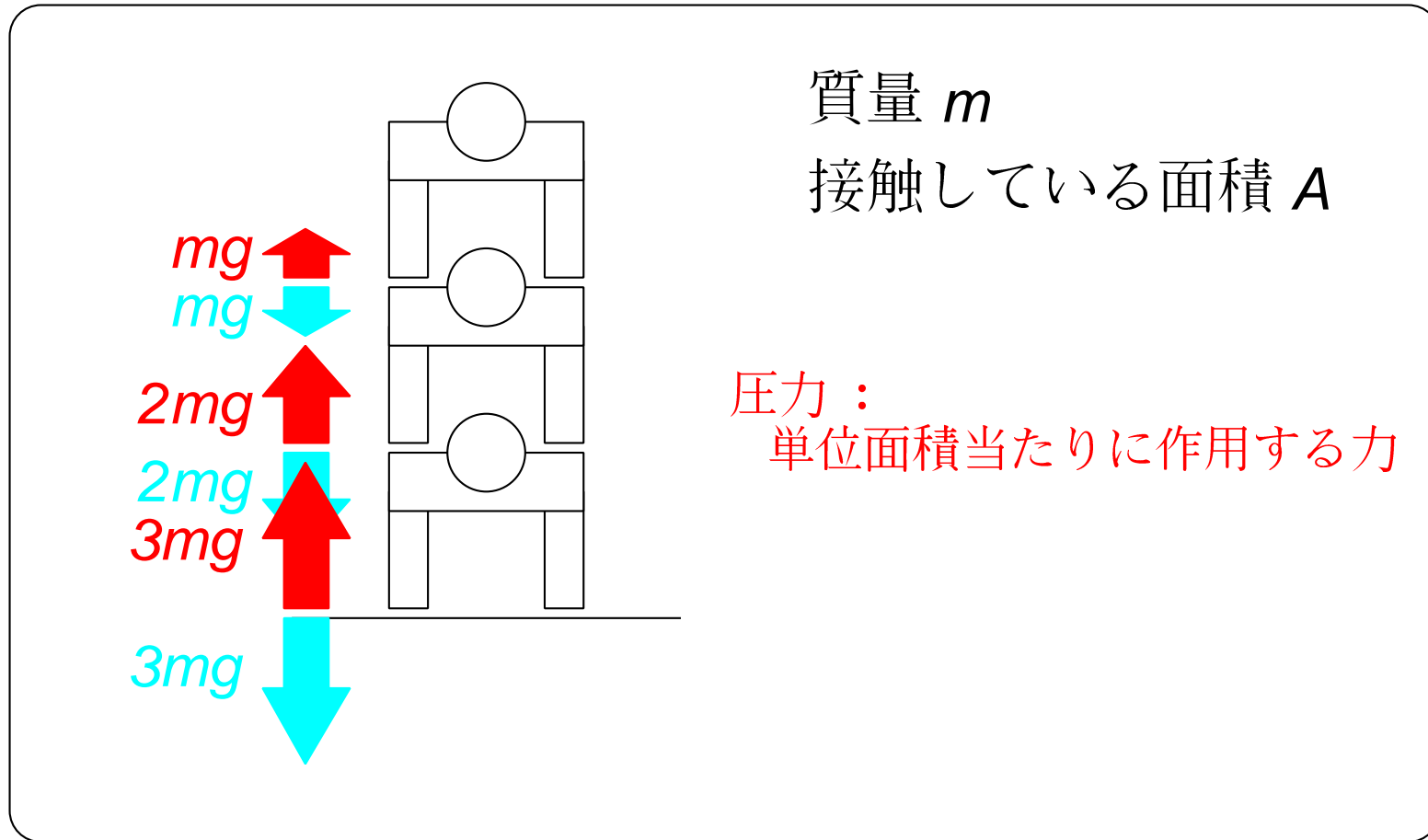
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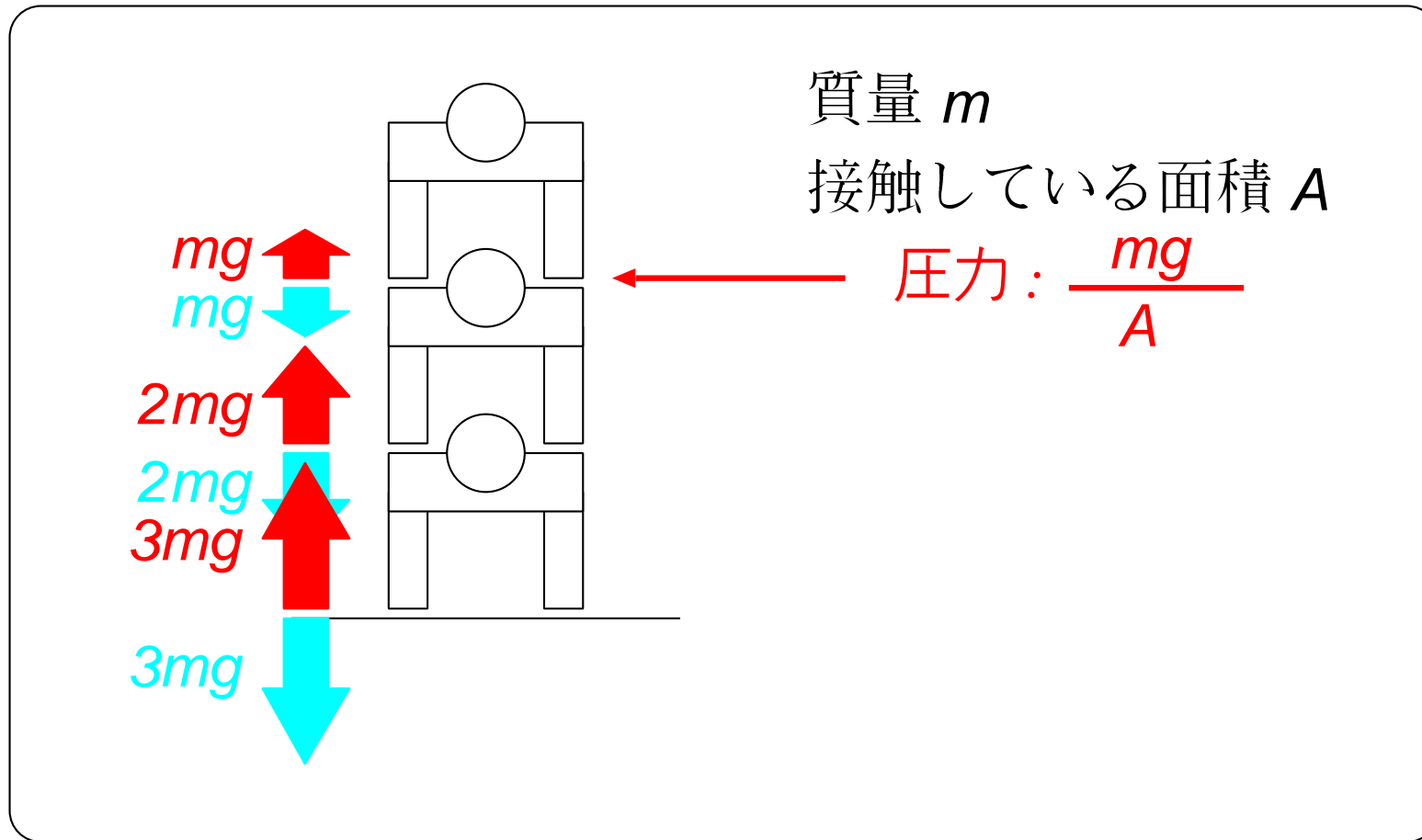
# 静力学平衡



# 静力学平衡

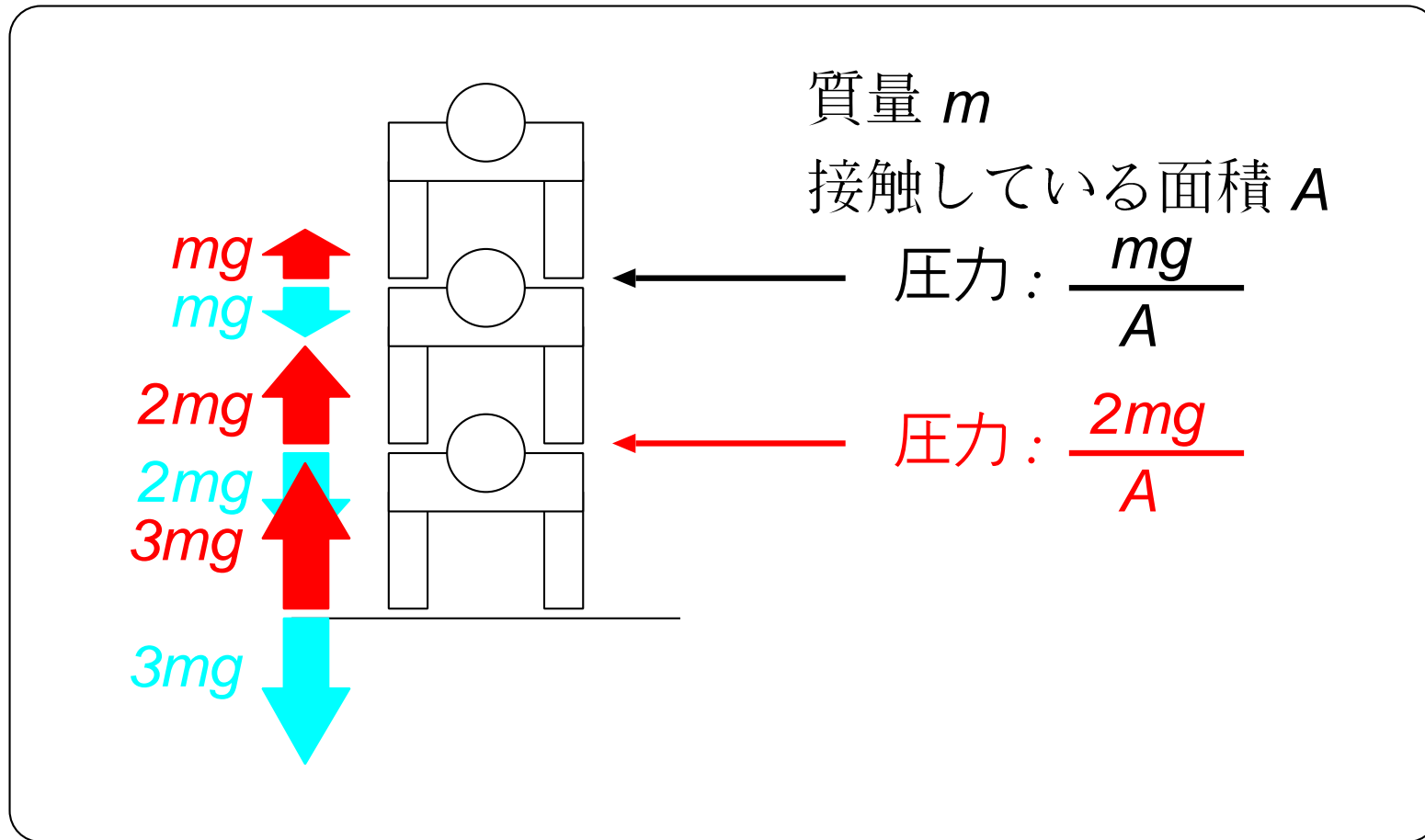


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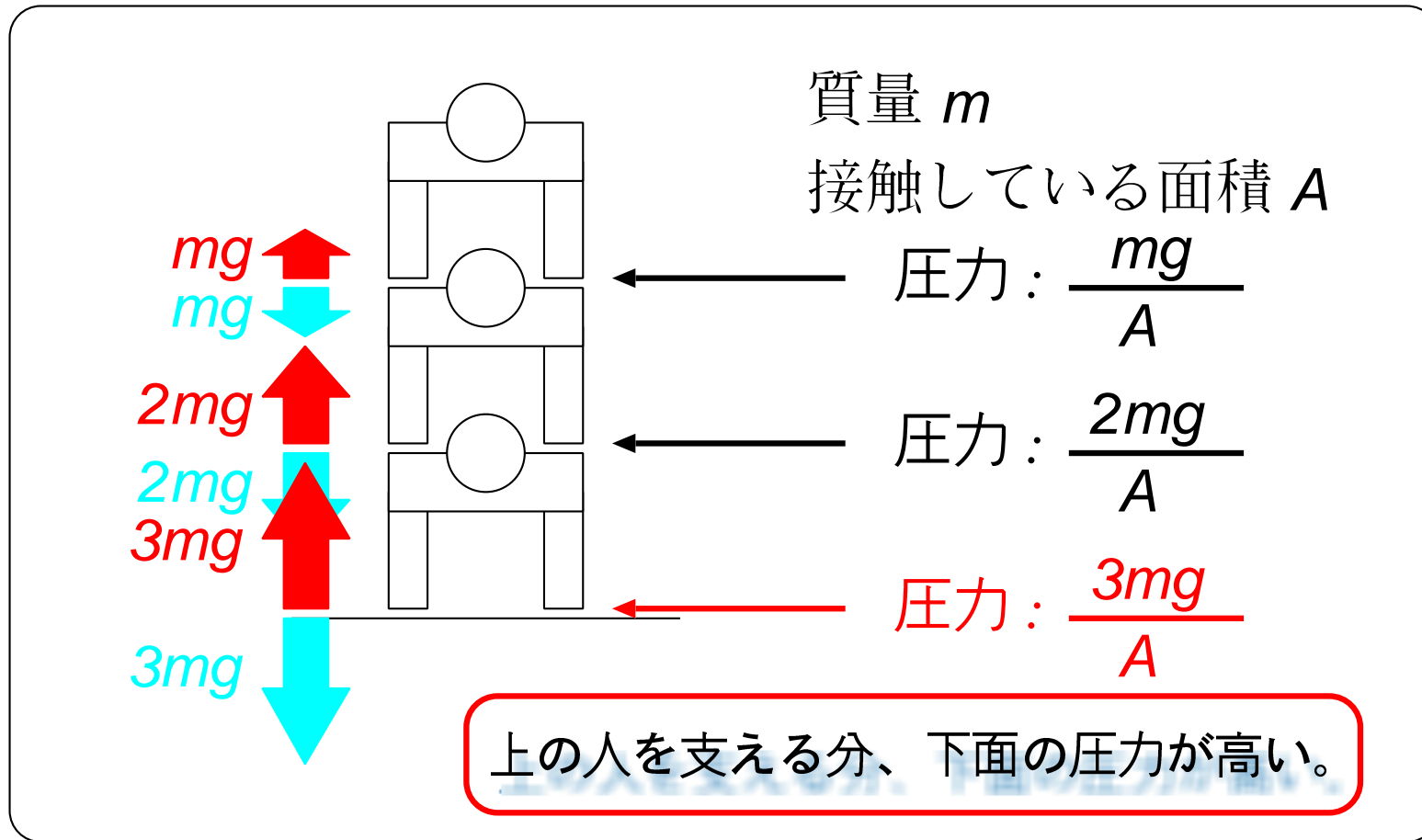




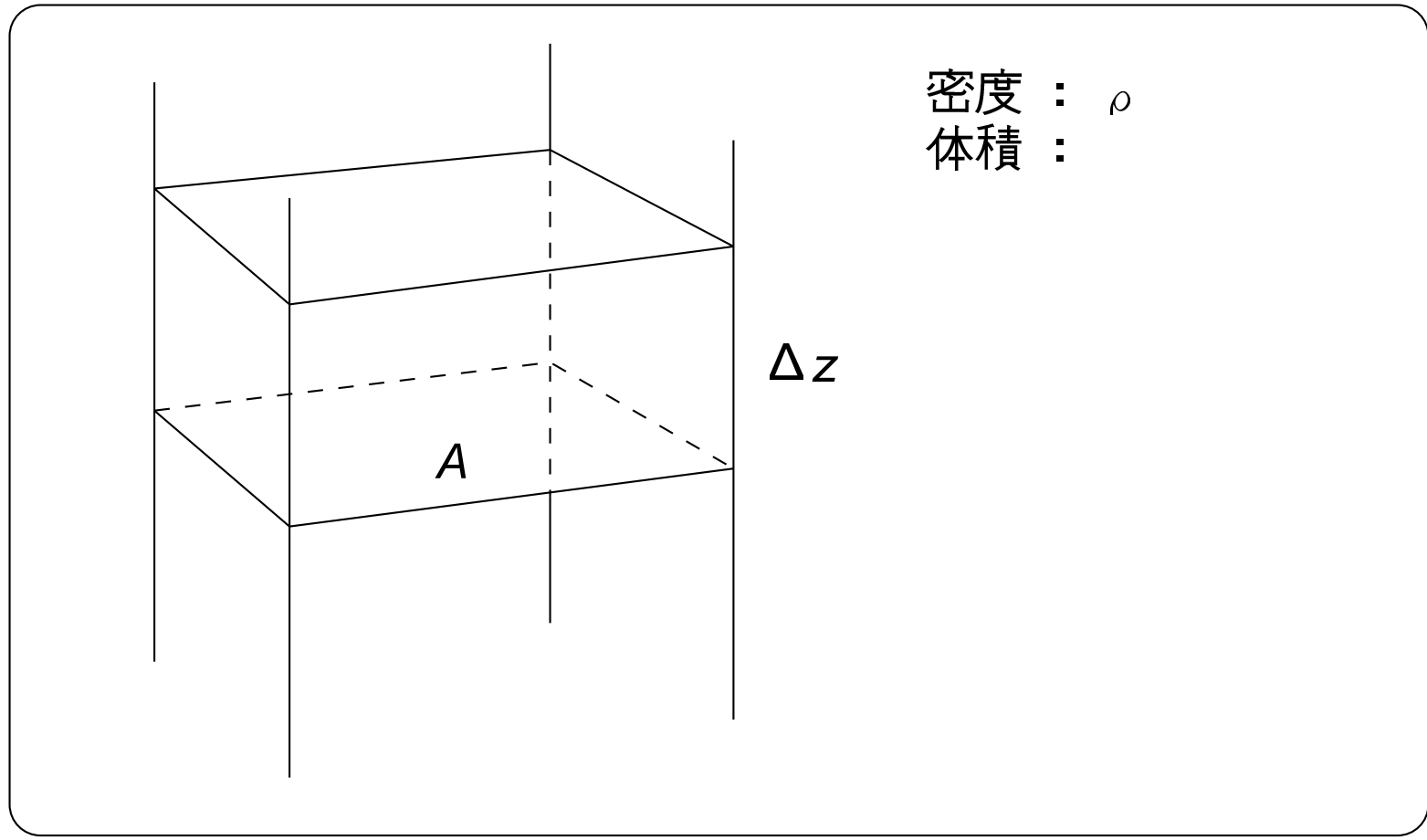
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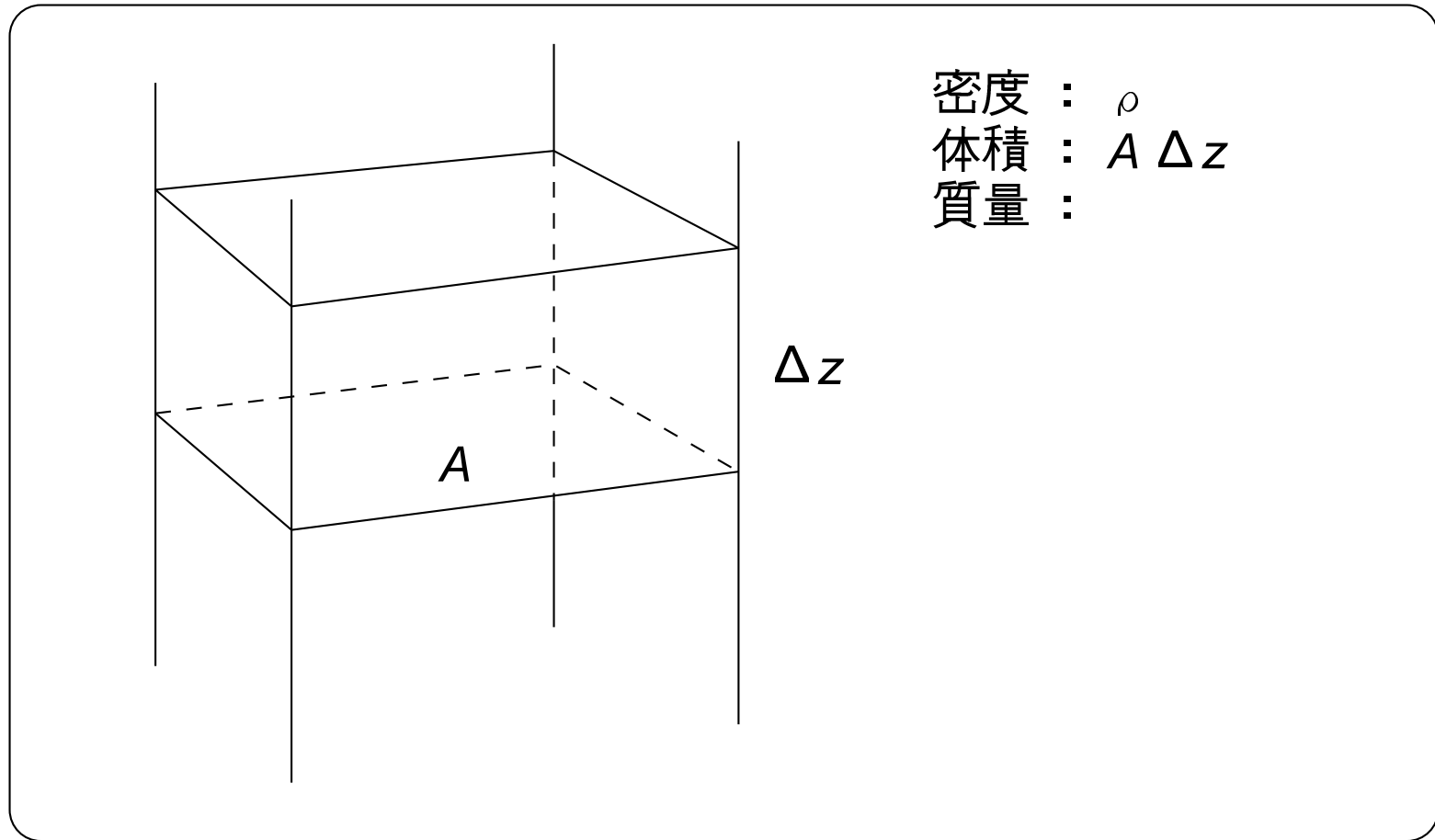
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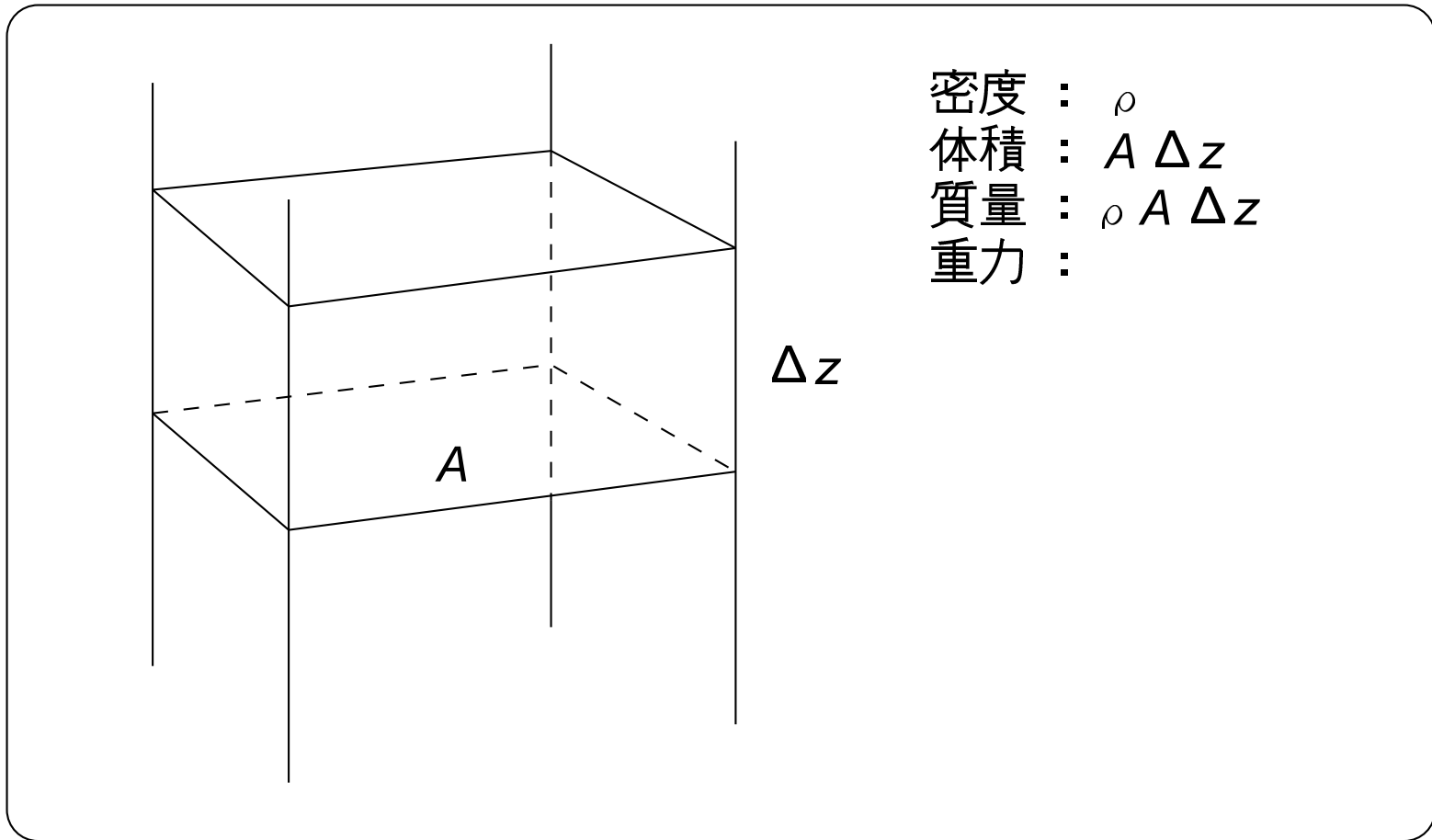
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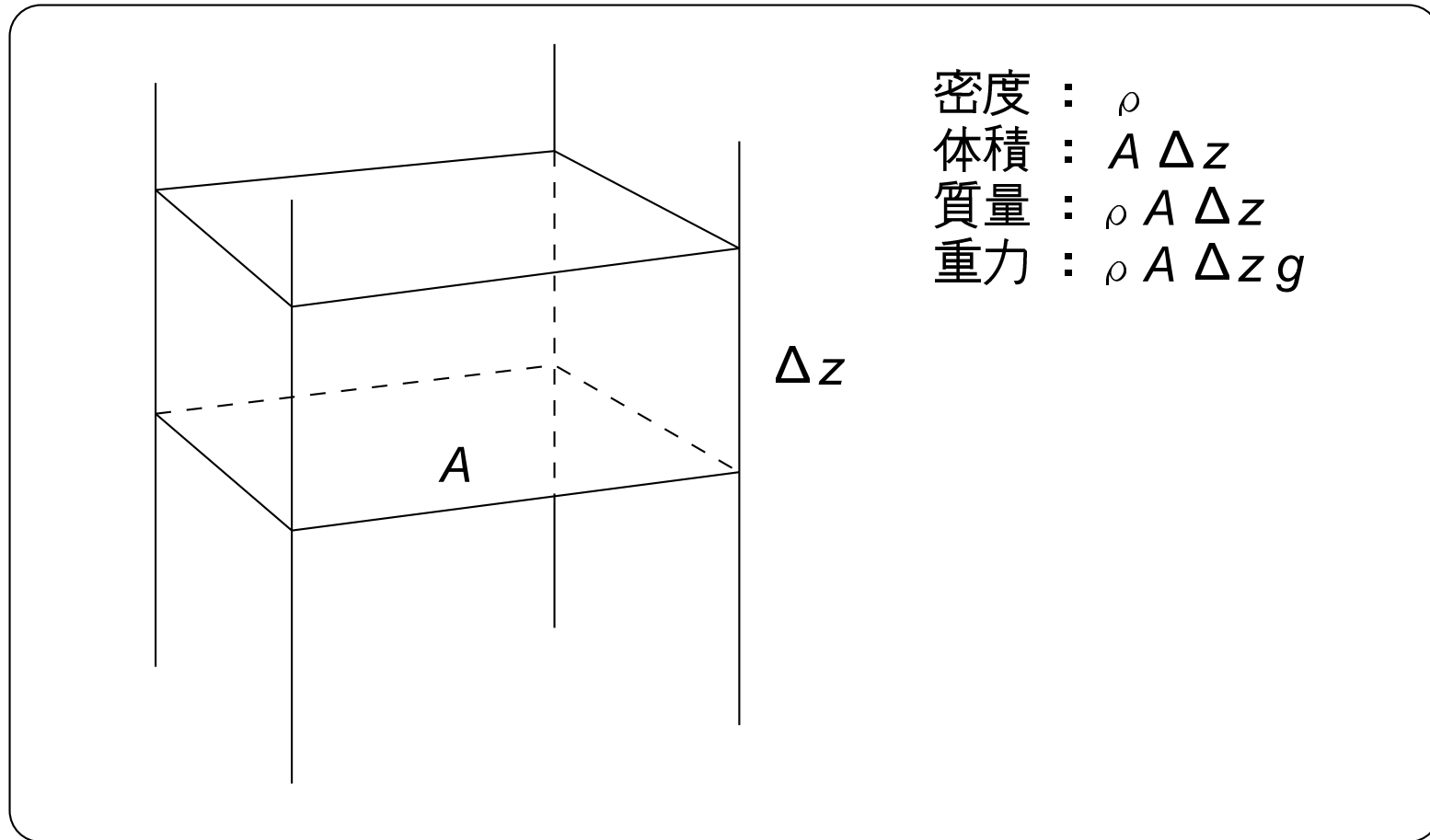
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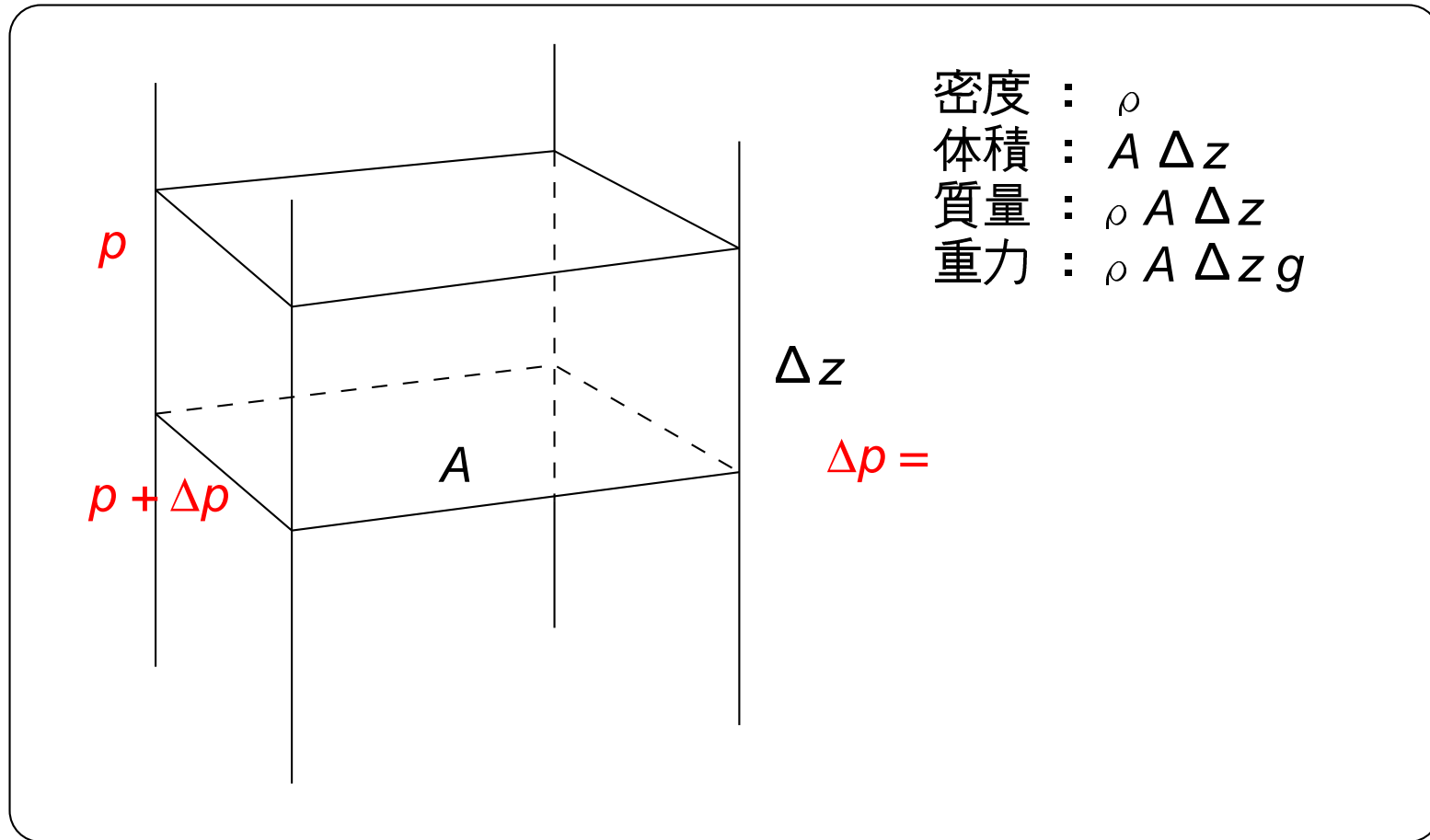
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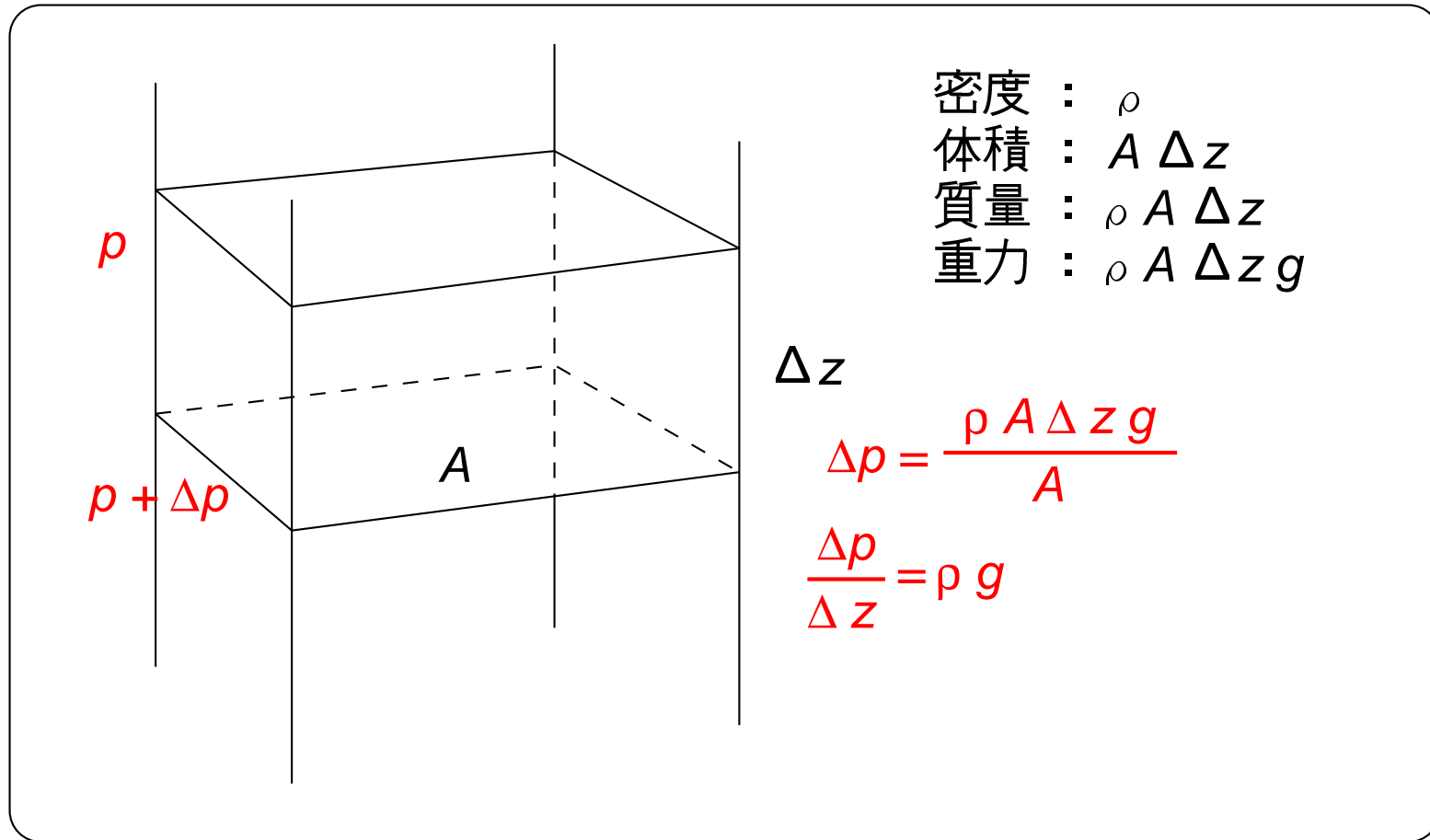
# 静力学平衡



# 静力学平衡

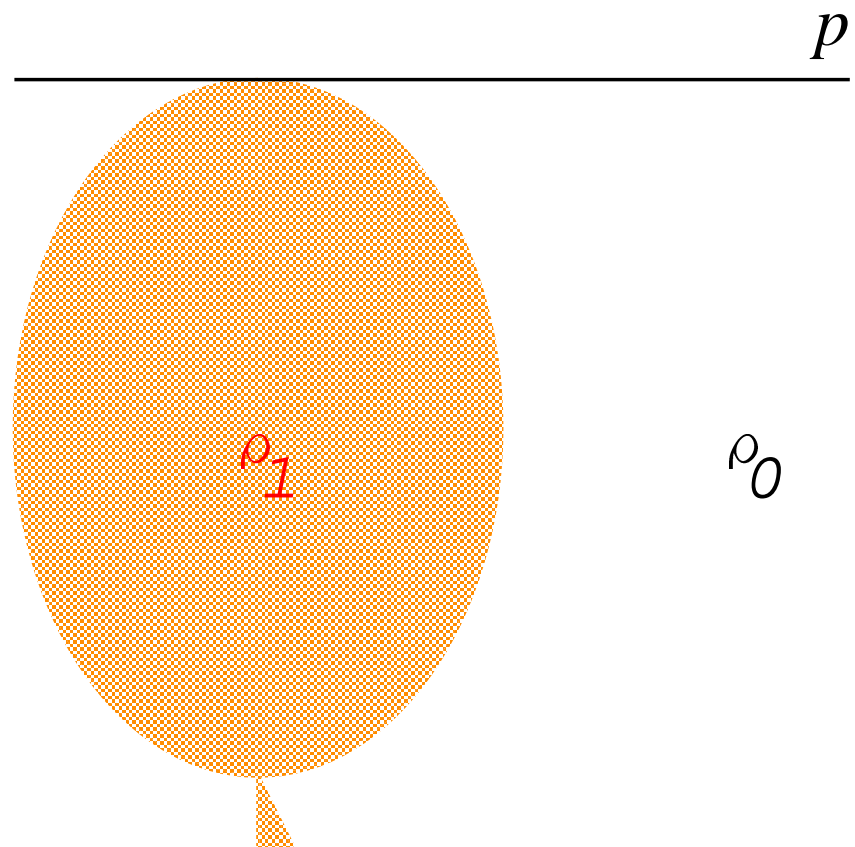


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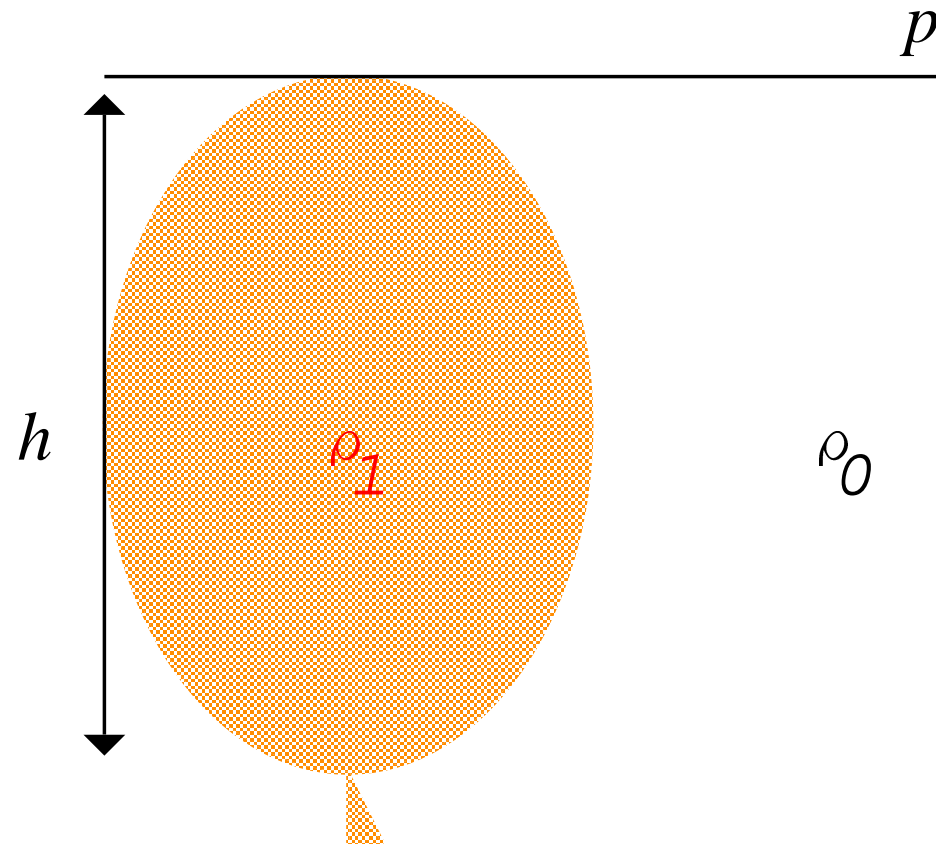




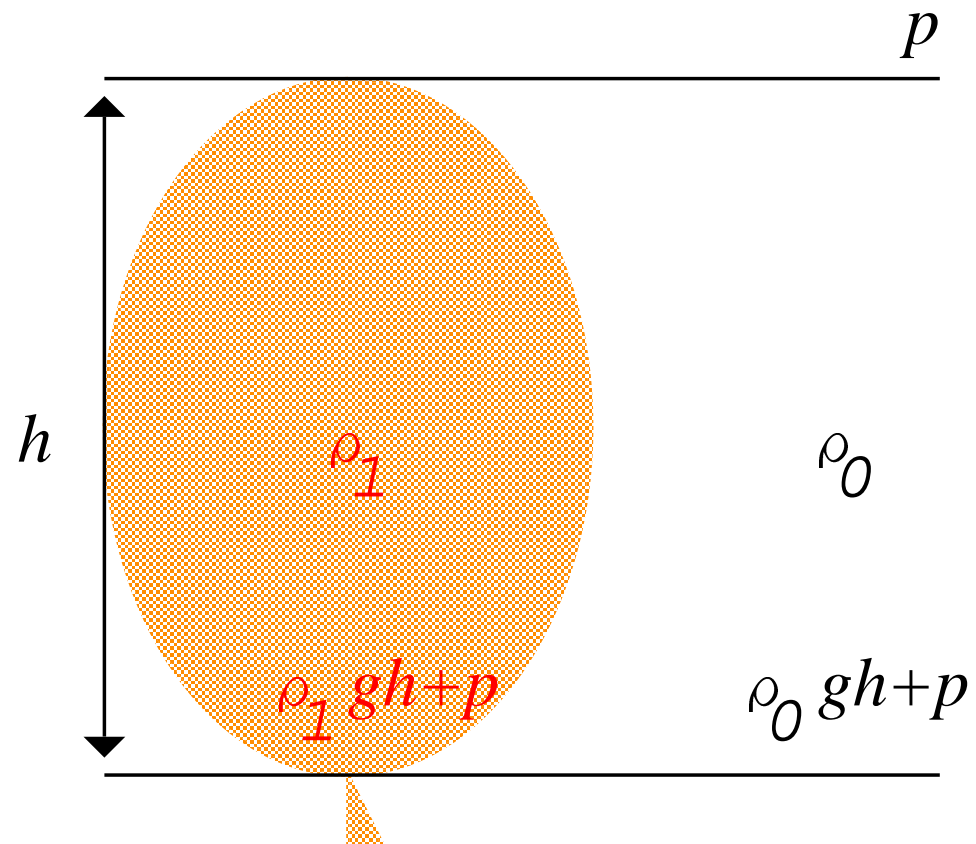
# 静力学平衡と浮力



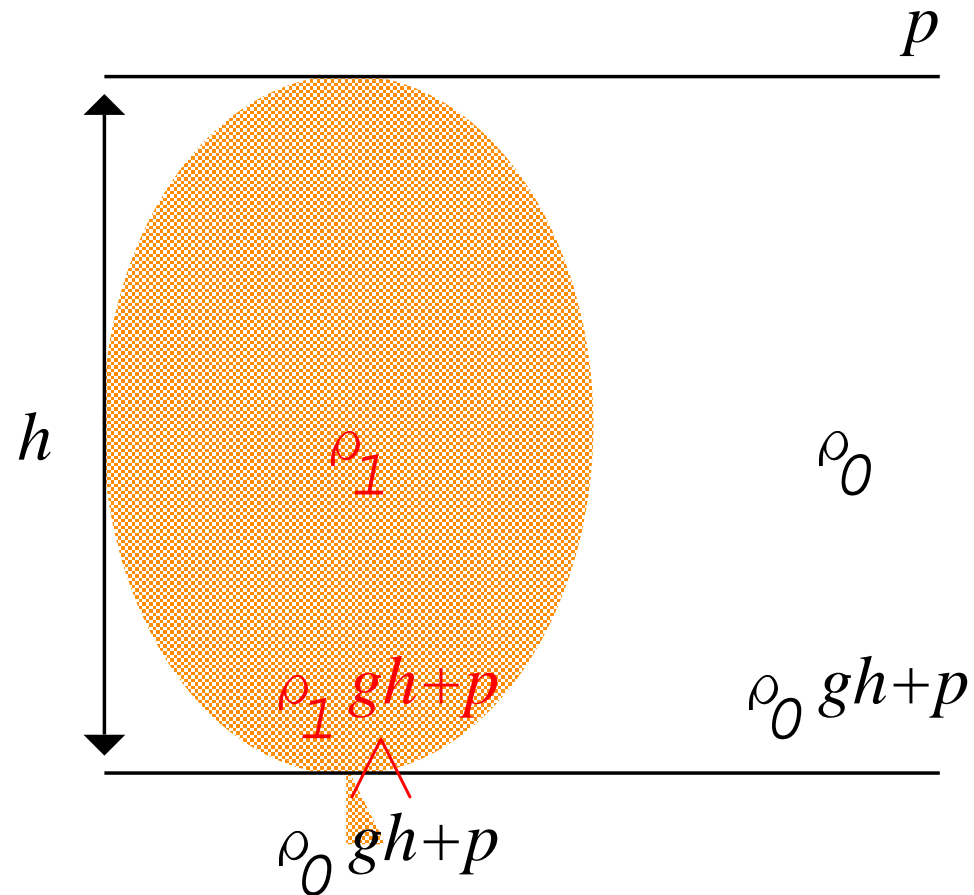
# 静力学平衡と浮力



# 静力学平衡と浮力



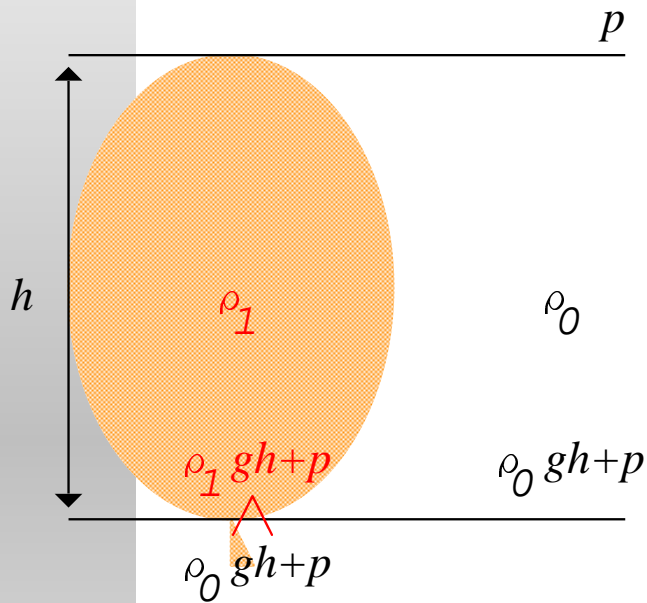
# 静力学平衡と浮力



$$\rho_1 gh + p < \rho_0 gh + p$$

⇒ 上向きの浮力が働く

# 静力学平衡と浮力



$$\rho_1 gh+p < \rho_0 gh+p$$

⇒ 上向きの浮力が働く

$$\int_A (\rho_0 - \rho_1) g h dA$$

A: 断面

$$= g(\rho_0 - \rho_1)V$$

V: 風船の体積

$$= g(m_0 - m_1)$$

ガスの質量 ( $m_1$ ) と同体積の空気の質量 ( $m_0$ ) に作用する重力の差