

Tecnica delle Costruzioni Meccaniche

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Materiale ad esclusivo uso degli studenti del corso di

Tecnica delle Costruzioni Meccaniche
<http://www.mecc.polimi.it/~miccoli/TCM/>

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Spiegazione classica

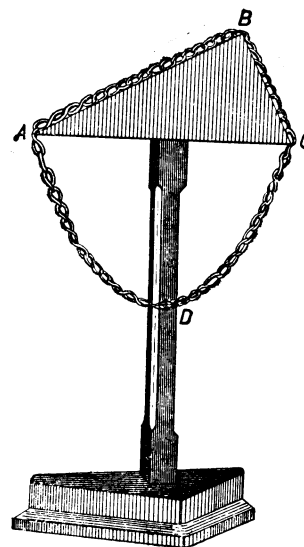
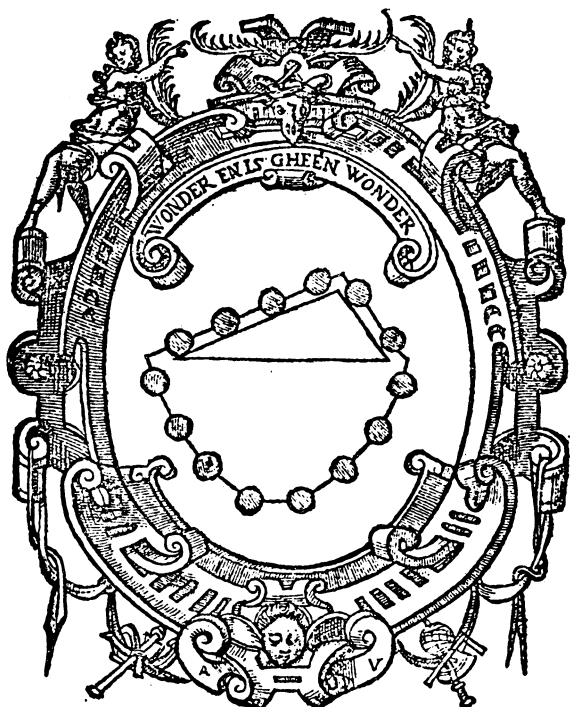


Figura 19

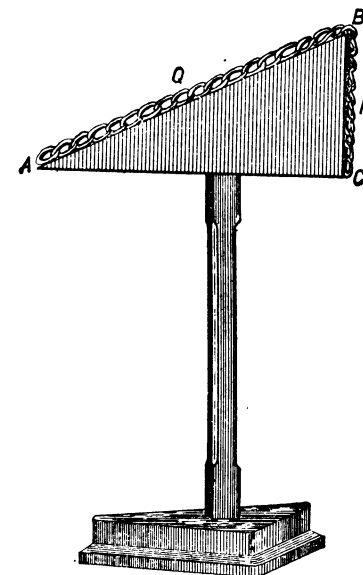


Figura 20

$$\frac{G_{AB}}{G_{BC}} = \frac{\overline{AB}}{\overline{BC}}, \quad F_{AB} = F_{BC}$$

in fig. 20:

$$F_{BC} = G_{BC} \quad \Rightarrow \quad F_{AB} = G_{BC} \quad \Rightarrow \quad \frac{F_{AB}}{G_{AB}} = \frac{G_{BC}}{G_{AB}} = \frac{\overline{BC}}{\overline{AB}} \quad \Rightarrow \quad \boxed{F : G = h : l}$$

Pulegge

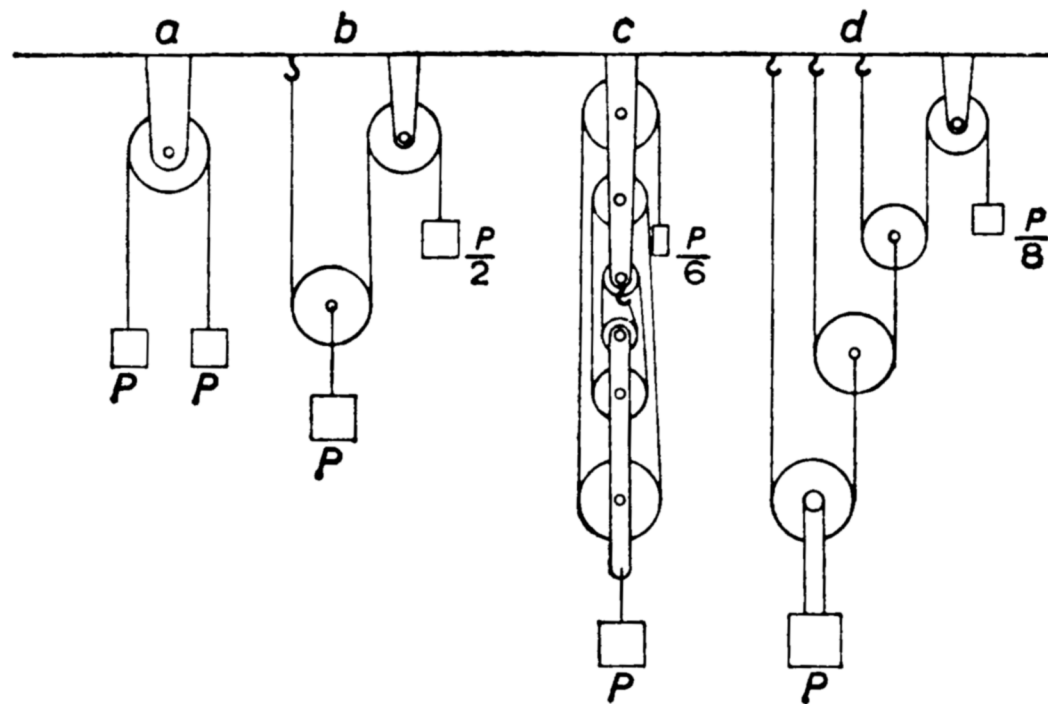
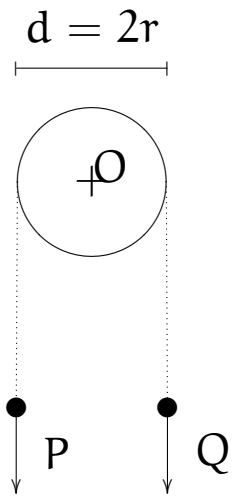


Figura 39

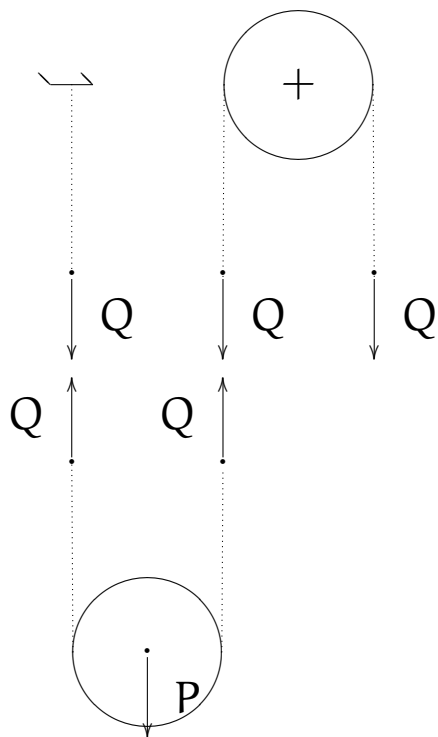
Carrucola semplice



$$\sum M_O = 0 \quad \Rightarrow \quad P \cdot r - Q \cdot r = 0 \quad \Rightarrow$$

$$P = Q$$

Carrucola doppia



$$2Q - P = 0$$

$\Rightarrow$

$$Q = \frac{P}{2}$$

Equazioni Cardinali della Statica Caso piano (2D)

equilibrio alla traslazione equilibrio alla rotazione

$$\sum \vec{F} = \vec{0}$$

$$\sum M = 0$$

$$\begin{cases} \sum F_x = 0 \\ \sum F_y = 0 \end{cases}$$