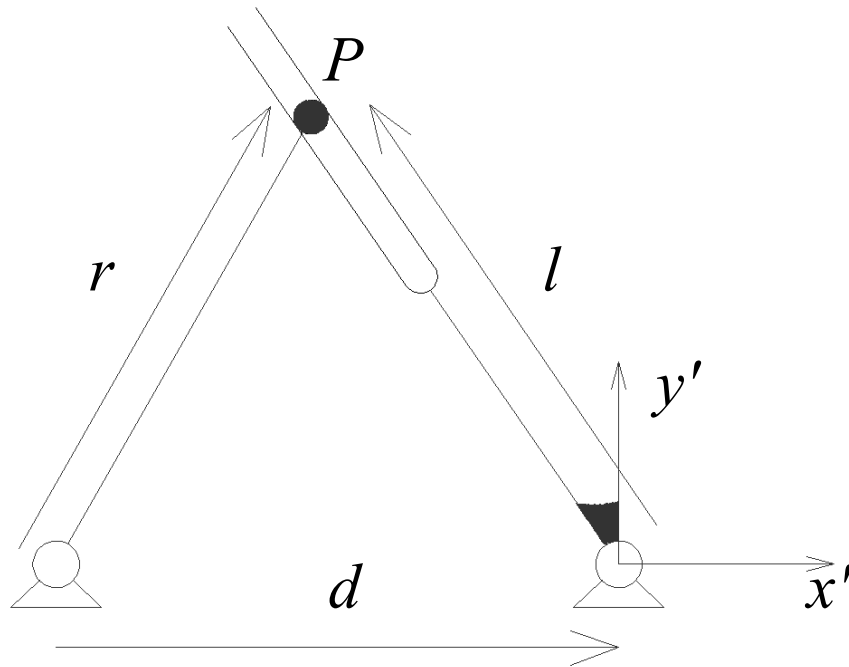


Manovellismo a glifo



$$r e^{i\alpha} = d + l e^{i\gamma}$$

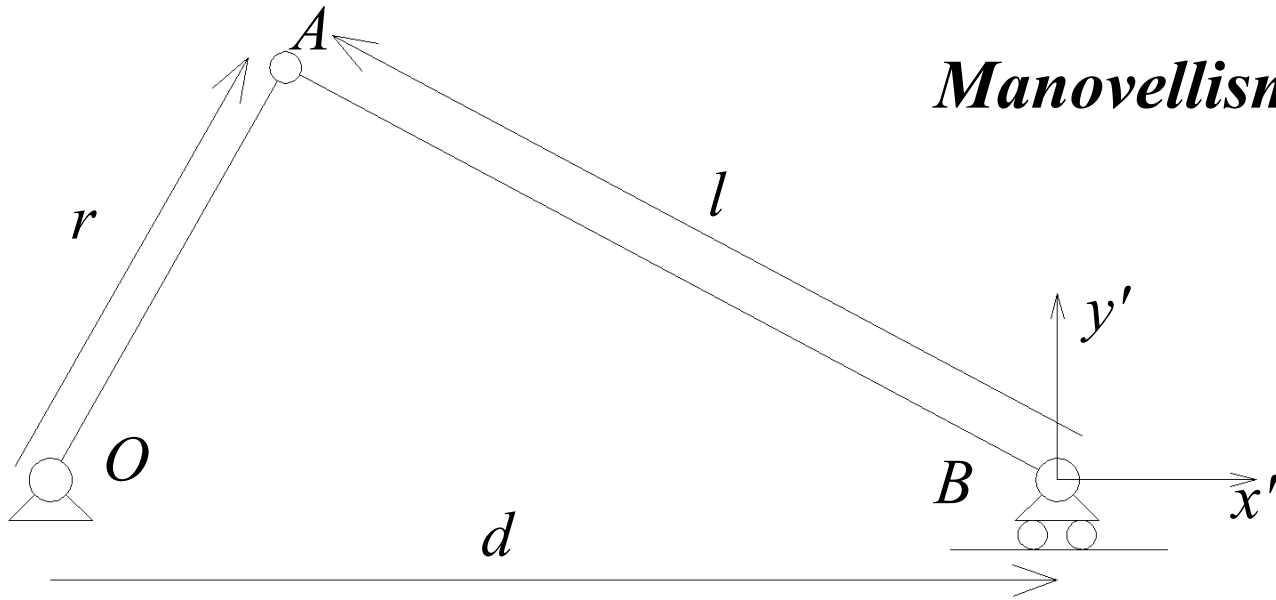
$$i\ddot{\alpha} r e^{i\alpha} = i\dot{\gamma} l e^{i\gamma} + \dot{l} e^{i\gamma}$$

$$\begin{array}{ccc} \downarrow & \downarrow & \downarrow \\ v_a^P & v_t^P & v_r^P \end{array}$$

$$i\ddot{\alpha} r e^{i\alpha} - \dot{\alpha}^2 r e^{i\alpha} = i\dot{\gamma} l e^{i\gamma} - \dot{\gamma}^2 l e^{i\gamma} + i2\dot{\gamma}\dot{l} e^{i\gamma} + \ddot{l} e^{i\gamma}$$

$$\begin{array}{cccccc} \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ a_{at}^P & a_{an}^P & a_{tt}^P & a_{tn}^P & a_c^P & a_{rt}^P \end{array}$$

Manovellismo ordinario centrato



$$r e^{i\alpha} = d + l e^{i\gamma}$$

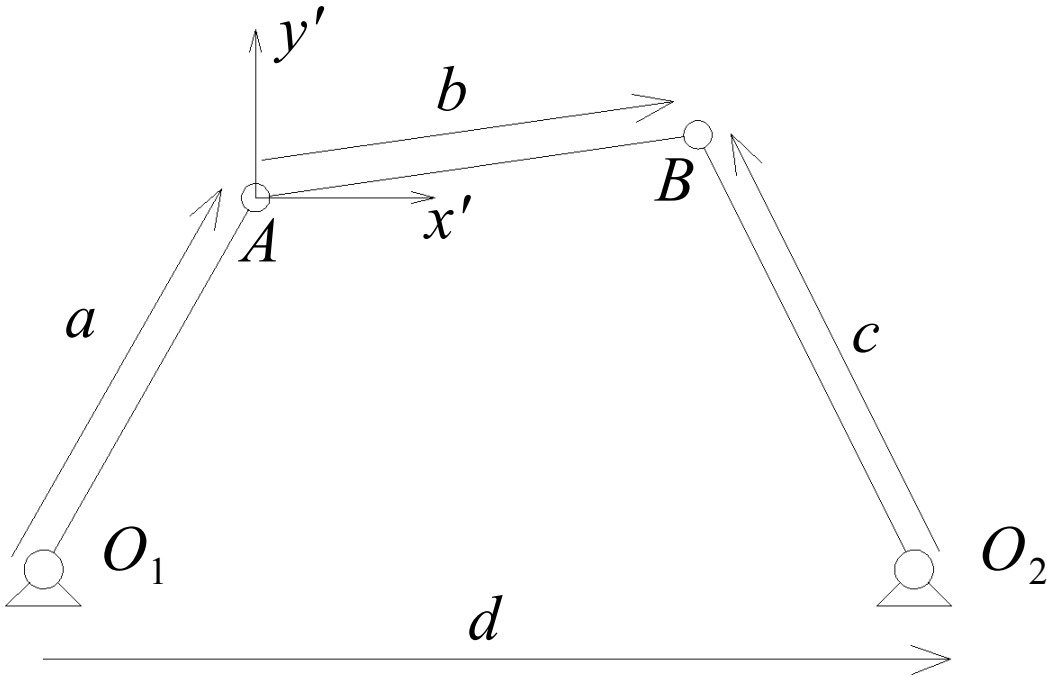
$$i \dot{\alpha} r e^{i\alpha} = \dot{d} + i \dot{\gamma} l e^{i\gamma}$$

$$\begin{array}{ccc} \downarrow & \downarrow & \downarrow \\ v_A & v_B & v_{AB} \end{array}$$

$$i \ddot{\alpha} r e^{i\alpha} - \dot{\alpha}^2 r e^{i\alpha} = \ddot{d} + i \ddot{\gamma} l e^{i\gamma} - \dot{\gamma}^2 l e^{i\gamma}$$

$$\begin{array}{ccccc} \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ a_{At} & a_{An} & a_{Bt} & a_{ABt} & a_{ABn} \end{array}$$

Quadrilatero articolato



$$a e^{i\alpha} + b e^{i\beta} = d + c e^{i\gamma}$$

$$i \dot{\alpha} a e^{i\alpha} + i \dot{\beta} b e^{i\beta} = i \dot{\gamma} c e^{i\gamma}$$

$$\begin{array}{ccc} \downarrow & \downarrow & \downarrow \\ v_A & v_{BA} & v_B \end{array}$$

$$i \ddot{\alpha} a e^{i\alpha} - \dot{\alpha}^2 a e^{i\alpha} + i \ddot{\beta} b e^{i\beta} - \dot{\beta}^2 b e^{i\beta} = i \ddot{\gamma} c e^{i\gamma} - \dot{\gamma}^2 c e^{i\gamma}$$

$$\begin{array}{cccccc} \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ a_{At} & a_{An} & a_{BA t} & a_{BA n} & a_{Bt} & a_{Btn} \end{array}$$