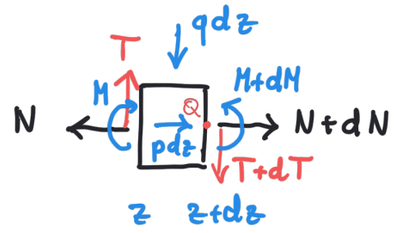
EQUAZIONI INDEFINITE DI EQUILIBRIO



$(\rightarrow)$ $-N+N+dN+p\,dz=0$

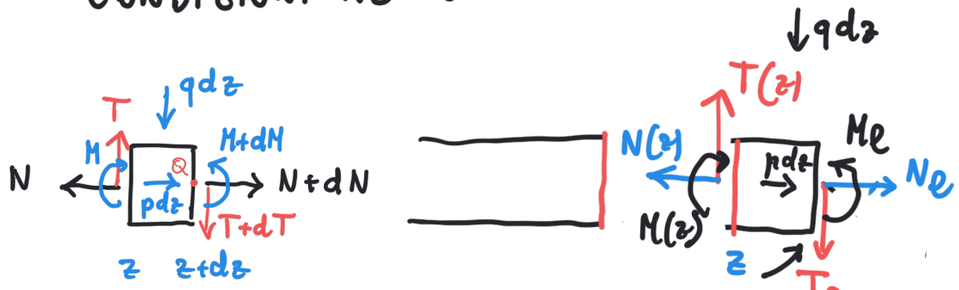
$(\downarrow)$ $-T+T+dT+q\,dz=0$

$(\circlearrowleft)$ $-M+M+dM-T\,dz+q\,dz\,\frac{dz}{2}=0$

infinitesimo di ordine dz^2

$$N'+p=0$$
$$T'+q=0$$
$$M'-T=0$$

CONDIZIONI AL CONTORNO



estendo N per continuità fino al bordo

$(\rightarrow)$ $N(l) = Ne$

$(\downarrow)$ $T(l) = Te$

$(\circlearrowleft)$ $M(l) = Me$

$-N(z) + Ne + p\,dz = 0$

$dz \to 0 \quad z \to l$

$\lim_{z \to 0} N(z) = Ne$

$N' + p = 0$

$T' + q = 0$

$M' - T = 0$