

$$m \vec{a}_{aps.} = \sum_{i=1}^n \vec{F}_i \quad (1)$$

$$\vec{a}_{aps.} = \vec{a}_p + \vec{a}_r + \vec{a}_{cor} \quad (2)$$

$$m \vec{a}_p + m \vec{a}_r + m \vec{a}_{cor} = \sum_{i=1}^n \vec{F}_i \quad (3)$$

$$m \vec{a}_r = \sum_{i=1}^n \vec{F}_i - m \vec{a}_p - m \vec{a}_{cor} \quad (4)$$

$$\vec{F}_p^{in} = -m \vec{a}_p \quad (5)$$

$$\vec{F}_{cor}^{in} = -m \vec{a}_{cor} \quad (6)$$

$$m \vec{a}_r = \sum_{i=1}^n \vec{F}_i + \vec{F}_p^{in} + \vec{F}_{cor}^{in} \quad (7)$$