Chap. 3 Equilibrium of particles
Particle in mechanics: A body whose size and shape are not important in the description and prediction as its condition of rest or motion.
Pulley: a whee mounted on a frictionless axis.
In a system of pulleys of blacks counsated by cables, cables are assumed to be perfectly flexile, and the tension in each cable Remains the same throughout the same cable.
necessary \& pufficent condition for the equiclibum of particle is $\overrightarrow{E F}=\overrightarrow{0}$ for the force eycten. acting on the free body of the particle.


