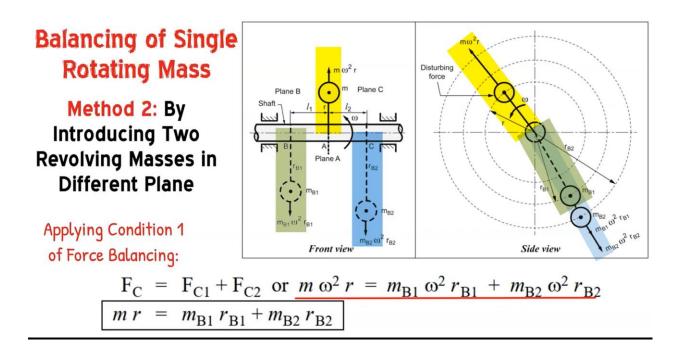
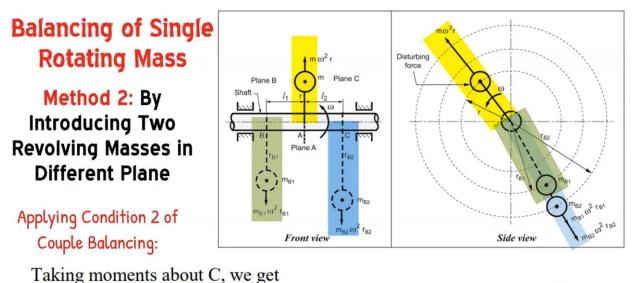
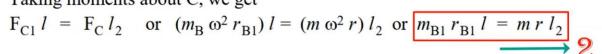


Conditions for balancing of the system:

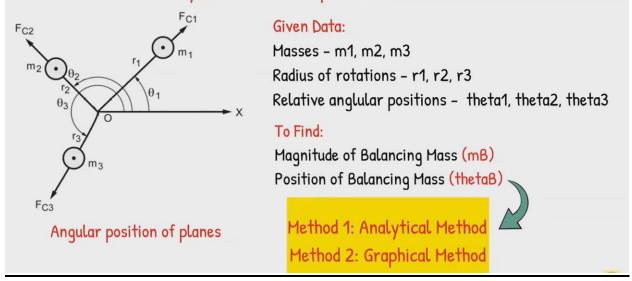
- 1. The resultant centrifugal force must be zero.
- 2. The resultant couple (about a reference plane) must be zero.

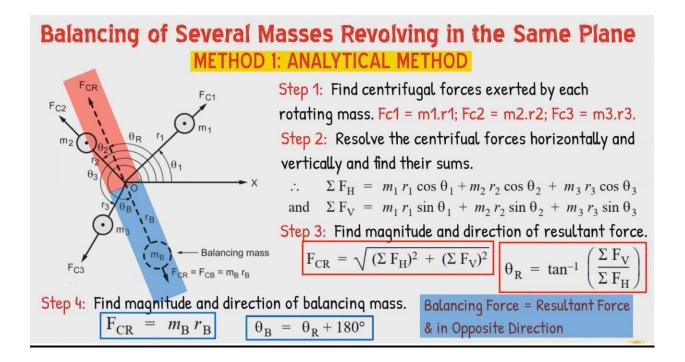


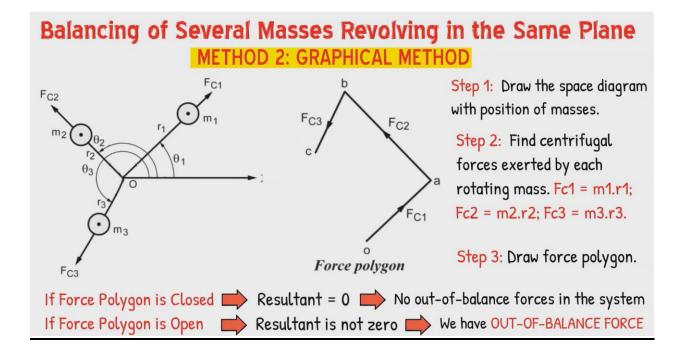


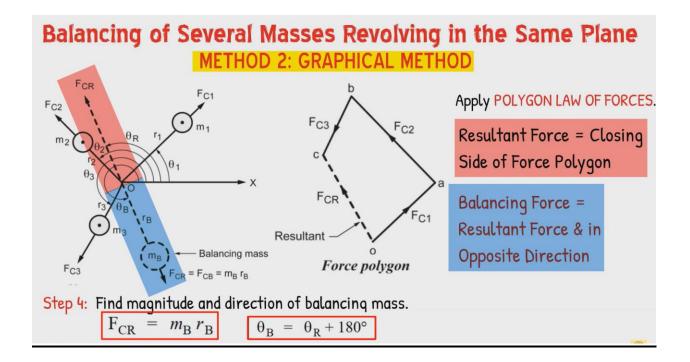


## Balancing of Several Masses Revolving in the Same Plane Consider a three-rotor system in the same plane.









## **Governors**

- The function of a governor is to regulate the mean speed of an engine, when there are variations in the load *e.g.* when the load on an engine increases, its speed decreases, therefore it becomes necessary to increase the supply of working fluid.
- On the other hand, when the load on the engine decreases, its speed increases and thus less working fluid is required.
- The governor automatically controls the supply of working fluid to the engine with the varying load conditions and keeps the mean speed within certain limits.