

Couple

Couple:

Two forces F and $-F$ having the same magnitude, parallel lines of action and opposite sense are said to form a couple.

Sum of the moment of couple forces about any point is same in magnitude and nature.

Moment of a couple = Force \times arm of the couple.

$$M = F \times a$$

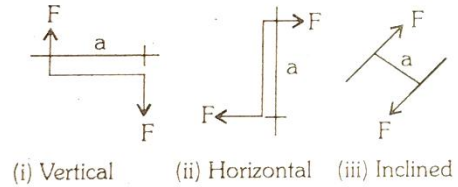
Difference between Moment and Couple :

The couple is a pure turning effect which may be moved anywhere in its own plane or into a parallel plane without change of its effect on the body, but the moment of a force must include a description of the reference axis about which the moment is taken.

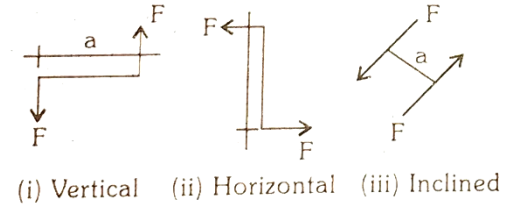
Types of couple :

1. Clockwise couple
2. Anticlockwise couple

Clockwise couple acting on a body will have a tendency to rotate the body in clockwise direction, similarly anticlockwise couple will have a tendency to rotate a body in anticlockwise direction.



Clockwise Couple



Anticlockwise Couple

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