Engineering Mechanics

Principle of Transmissibility of Force

Statement:-

"If a force acts at a point on a rigid body, it is assumed to act at any other point on the line of action of the force within the body".



Example: A force push in the first quadrant means the same force pull in the third quadrant.



Composition of Forces

"The process of finding out the resultant force of a given system of forces is called as composition of forces".

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Resultant Force:-

"Resultant of number of forces acting on a body is defined as a single force, which can produce the same effect as it is produced by the number of forces acting together".

Parallelogram Law of Force:-

"If two forces acting at and away from the point be represented in magnitude and direction by the two adjacent sides of a parallelogram, then the diagonal of the parallelogram passing through the point of intersection of the two forces, represents the resultant in magnitude and direction".





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