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Engineering Mechanics Statics Si Version

Statics is the branch of mechanics that is concerned with the analysis of (force and torque, or "moment") acting on physical systems that do not experience an acceleration ($a=0$), but rather, are in static equilibrium with their environment. The application of Newton's second law to a system gives: $\Sigma \mathbf{F} = 0$. Where bold font indicates a vector that has magnitude and direction.

Statics - Wikipedia

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Classical mechanics - Wikipedia

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