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loads (force and torque, or "moment") acting on physical systems that
do not experience an acceleration ($a=0$), but rather, are in static

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equilibrium with their environment. The application of Newton's second law to a system gives: $\Sigma \mathbf{F} = m\mathbf{a}$. Where bold font indicates a vector that has magnitude and direction.

Statics - Wikipedia

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Engineering Mechanics: Statics & Dynamics - CosmoLearning

Statics is the study which deals with the condition of bodies in equilibrium subjected to external forces. In other words, when the force system acting on a body is balanced, the system has no external effect on the body, the body is in equilibrium. Dynamics is also a branch of mechanics in which the forces and their effects on the bodies in motion are studied.

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