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the meaning of statics is mechanics dealing with the relations of forces that produce equilibrium among material bodies mechanics dealing with the relations of forces that produce equilibrium among material

bodies informally statics is the study of forces without motion more formally statics is the branch of mechanics that deals with forces in the absence of changes in motion in contrast dynamics is the study of forces and motion or more formally the branch of mechanics that deals with the effect that forces have on the motion of objects statics implies stasis statics is the branch of classical mechanics that is concerned

with the analysis of force and torque also called 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

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