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Statics, the branch of Engineering Mechanics dealing with the analysis of force interactions in bodies at equilibrium, mainly comprises of study of structures. In engineering mechanics an arrangement of rigid members connected in certain patterns is called as a structure. A bridge, a communication tower and frame of an automobile all are structures.

[Engineering Mechanics: Statics - Bright Hub Engineering](#)

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## A Course on Engineering Mechanics: Statics | Udemy

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## Mechanical Engineering < University of Nebraska–Lincoln

The content discussed in this course is identical in many textbook of Mechanical Engineering. However, the following reference textbooks are good source of information for this class and are on reference in the library. Engineering Mechanics: Statics by R. C. Hibbeler, 14th edition; Engineering Mechanics Statics by J.L. Meriam and L. Kraige

## STATICS – Prof. Pezhman Mardanpour

ME 24600: Engineering Mechanics I (Statics and Particle Kinematics) Vector concepts in mechanics. Equivalent force systems. Centers of gravity and pressure. Equations of equilibrium for two- and three-dimensional systems. Static determinacy. Analysis of trusses, frames, machines and cables. Frictional forces. Properties of surfaces and rigid ...

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