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Structures are subjected to forces external to themselves, such as weights placed on them, the deadweight of the structure itself, wind or water pressure, and reactions exerted by the ground on which the structure rests. Before engineers can design a structure, they must be able to determine all the forces acting on it at any one time.

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theory of structures introduction A structure (from the Latin struere) is anything built: say an arched bridge or cathedral from stone; a ship or a roof (and perhaps a spire) from timber; an earth dam or an excavation in soil for a fortification; or (as isolated usages) iron bars (in China first) or

vegetable ropes to form suspension chains in bridges.

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