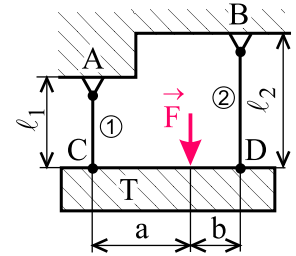


Problem 434

The body T is hanged on two bars of circular cross sections in horizontal position according the figure. It is loaded by the force \vec{F} . Evaluate the safety factor against the limit state of elasticity. The geometry, loads and material characteristics (cross section areas S_1, S_2 , yield stresses σ_{K1}, σ_{K2} and Young's moduli E_1, E_2) are known. Gravitational forces can be neglected. Deformations of the body T („rigid body“) are negligible against the deformations of the bars.



Solutions systems with bars