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**So, this is the beginning of the blog and the most elementary part of any force relationship in engineering mechanics. The purpose of "Statics" is to attain a relationship between external forces applied to an object and the internal forces required to keep the object from moving (static).**

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**What is static equilibrium 15. How to draw good free-body diagrams (FBDs) 16. Why is the tension the same everywhere in a rope 17. How to calculate forces of three ropes pulling in different directions 18. Using symmetry in statics problems 19. How to find the mass pulling on a spring when given the deflection 20. How to find the force exerted by a spring 21. More comprehensive spring problem ...**

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