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This is a statics and dynamics text for second or third year engineering students with an emphasis on vectors, free body diagrams, the basic momentum balance principles, and the utility of computation. Students often start a course like this thinking of mechanics reasoning as being vague and complicated.

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Statics is the branch of mechanics that is concerned with the analysis of loads (force and torque, or "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: =. Where bold font indicates a vector that has magnitude and direction.

Statics - Wikipedia
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ME 101: Engineering Mechanics
This book is tailor-made as per the syllabus of Engineering Mechanics offered in the first year of undergraduate students of Engineering. The book covers both Statics and Dynamics, and provides the students with a clear and thorough presentation of the theory as well as the applications.

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Hibbler, R.C and Ashok Gupta, "Engineering Mechanics: Statics and Dynamics", 11th Edition, Pearson Education (2010). Irving H. Shames and Krishna Mohana Rao. G., "Engineering Mechanics Statics and Dynamics", 4th Edition, Pearson Education (2006)

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Mechanics, the study of forces and physical bodies, underpins a very large proportion of all forms of engineering. A thorough understanding of mechanics is essential to any successful engineer. This course helps develop an understanding of the nature of forces with consideration for how they may be simplified in an engineering context.

Engineering Mechanics: Statics & Dynamics - CosmoLearning
Statics is the study which deals with the condition of bodies in equilibrium subjected to external forces. In other words, when the force system acting on a body is balanced, the system has no external effect on the body, the body is in equilibrium. Dynamics is also a branch of mechanics in which the forces and their effects on the bodies in motion are studied.