

MEEN 617 - Handout 4a

ELEMENTS OF ANALYTICAL MECHANICS

Newton's laws (Euler's fundamental principles of motion) are formulated for a single particle and easily extended to systems of particles and rigid bodies. In describing the motions, physical coordinates and forces are employed in terms of vectorial quantities (**vectorial mechanics**). The major drawback is that Newton's Laws consider the individual components of a system separately, thus requiring the calculation of **interacting forces** resulting from **kinematical constraints**. The calculation of these forces is many times of no consequence or interest in the final formulation of the equations of motion.

A different approach known as **ANALYTICAL MECHANICS** considers the system as a whole and it is more general than the simple Newtonian formulation. The motion of a system is formulated in terms of two scalar quantities, **WORK and KINETIC ENERGY**. The mathematical formulation is independent of any special system of coordinates and relies on the principle of virtual displacements.

When dealing with multi-degree of freedom systems (**MDOF**), it is often more expedient to derive the equations of motion by using the analytical mechanics approach. The method is also valid for **continuous systems**. In this case

Elements Of Analytical Dynamics

Firdaus E. Udwadia, Robert E. Kalaba



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