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total moment on the system is zero. (IIc) III) Power Balance (1st law of thermodynamics) Equation of motion QP C P D EPK C EPP C EPint | {z } EP Heat ?ow plus mechanical power into a system is equal to its change in energy (kinetic + potential + internal). (III) for ?nite time Z t 2 t1 QdtP C Z t 2 t1 PdtD1E The net energy ?ow going in is equal

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