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respectively. Other models, e.g. the model of attraction forces between the particles of a discrete mechanical system are part of the considered Newtonian model. Kepler's laws brilliantly verify this model in case of velocities much smaller than the light velocity in vacuum. The non-classical models are relativistic and quantic.

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Modeling Mechanical Systems Dr. Nhut Ho ME584 chp3 1. Agenda Idealized Modeling Elements ... Example 2: Mechanical System Draw a free body diagram, showing all ... (in classical and state space forms) describing the motion of the two disks J1 and J2.

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11.2 Dynamics of Discrete Mechanical Systems with Respect to a Non-inertial Frame of Reference 50 11.2.1 Motion of a Discrete Mechanical System with Respect to a Koenig Frame of Reference 50 11.2.2 Motion of a Discrete Mechanical System with Respect to an Arbitrary Non-inertial Frame of Reference 58 12.

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Mechanical System Elements – Three basic mechanical elements: – Spring (elastic) element ... Zero-Order Dynamic System Model – Step Response – Frequency Response ... dissipation effects in mechanical systems. – Frictional effects in moving parts of machines – Fluid drag on vehicles (cars, ships, aircraft, etc.) ...

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