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MWF ESM 2304 - DYNAMICS OF PARTICLES AND RIGID BODIES MWF ESM 2304 - DYNAMICS OF PARTICLES AND RIGID BODIES Spring Semester, 2010 1 TEXTBOOK: Engineering Mechanics: Dynamics, Volume 2, Sixth Edition (2007), By J. L. Meriam And L. G. Kraige PREREQUISITE: ESM 2104 - Statics COREQUISITE: MATH 2214 - Differential Equations CONCEPTS TO BE INTRODUCED: 4th, 2024 Dynamics Of Rigid Bodies I. Kinematics Of Rigid Bodies 1. Introduction 2. Types Of Motions 3. Rotation Of A Rigid Body About A Fixed Axis. 4. General Plane Motion. 5. Absolute And Relative Velocity In Plane Motion.

6. Instantaneous Centre Of Rotation In Plane Motion. 7. Absolute And Relative Acceleration In Plane Motion. 8. Analysis Of Plane Motion In Terms Of A Parameter. 1th, 2024 Dynamics Of Particles And Rigid Bodies A Systematic Approach Particles Vs Rigid Bodies, And 1 Vs 2 Vs 3 Spatial Dimensions. Thus A 12 Chapter Mechanics Table Of Contents Could Look Like This I. Statics A. Particles 1) 1D 2) 2D 3) 3D B. Rigid Bodies 4) 1D 5) 2D 6) 3D II. Dynamics C. Particles 7) 1D 8) 2D 9) 3D D. Rigid Bodies 10) 1D 11) 2D Classical Dynamics - DAMTP Planar Rigid Body Dynamics. 3th, 2024.

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Power Is Extended To A Rotating Body Subjected To A Couple $P = \frac{dW}{dt} = M\omega \frac{d\theta}{dt} = M D\theta \frac{d\omega}{dt}$ Where M Is The Magnitude
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Above Shows A Ladder AB Resting In Equilibrium With One End A On Rough Horizontal Ground And The Other End B Against
A Smooth Vertical Wall. The Ladder Is Modelled As A Uniform Rod Of Length $2l$, 2024
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Kinematics Of Rigid Bodies Angular Velocity About The Point C On A Perpendicular To The Velocity At A. • The Velocity Of All
Other Particles In The Slab Are The Same As Originally Defined Since The Angular Velocity And Translational Velocity At A are
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