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POLAR ...

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POLAR COORDINATES A Vector In Two Dimensions Can Be Written In Cartesian Coordinates As $\mathbf{r} = x\hat{x} + y\hat{y}$ (1) Where \hat{x} And \hat{y} Are Unit Vectors In The Direction Of Cartesian Axes And x An

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Classical Mechanics Lecture 16

Mechanics Lecture 16, Slide 11 CheckPoint. CheckPoint A Cylinder And A Hoop Have The Same Mass And Radius. They Are Released At The Same Time And Roll Down A Ramp Without Slipping. Which One Reaches The Bottom first? A)

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PHY 321, Classical Mechanics I, Lecture Notes

PHY321LectureNotes 1

MATHBASICS

Thus, the matrix that transforms the coordinates of the unit vectors, Eq. (1.7) is

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Lecture 1: Classical Non-ideal Gas Partition Function

We Take The Hamiltonian To Be The Kinetic Energy Plus A Potential Energy $U = \sum_{i,j} V_{ij}$ that Is The Sum Of Pairwise Potentials $V_{ij} = \frac{1}{2} \sum_{i,j} \phi(r_{ij})$ (1) The Factor Of $1/2$ In The Potential Is Because In The $\sum_{i,j}$ Sum We Count Each Interaction Twice, And $\sum_{i,j} \phi(r_{ij})$ Is Because ...

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Classical Mechanics LECTURE 5: KINETIC & POTENTIAL ...

KINETIC & POTENTIAL

ENERGY 5.1 Conservative Forces Examples 5.2 Potential With Turning Points 5.2.1 Oscillation About Stable Equilibrium 5.2.2 Bounded And Unbounded Potentials 2. 5.1 Conservative Forces $W_{AB} = \int_B^A \mathbf{F} \cdot d\mathbf{r} = U(a) - U(b)$ For A Conservative field Of Force, The Work Done Depends Only On The End Points. 1th, 2024 Lecture Notes In Classical Mechanics (80751) According To Classical Physics, "reality" Takes Place In A Product Space $R^3 \times R$, Where R^3 Represents Space And R Represents Time. The Notions Of Space And Time Are Axiomatic In Classical Physics, Meaning That They Do Not Deserve A Definition. (In Relativistic Physics, The Notions Of Space And Time Are Intermingled, And One Cannot Separate Them.) 1th, 2024 Classical Mechanics LECTURE 16: ORBITS : CENTRAL FORCES 16.3.2 Example : Solution I $U(r) = -\frac{GMm}{r}$ I $J = L$ $J = M r v_\phi$ $v_\phi = \frac{L}{M r}$ I Energy Equation : $E = \frac{1}{2} M \dot{r}^2 + \frac{1}{2} M \dot{\phi}^2 r^2 + U(r)$ $E = \frac{1}{2} M \dot{r}^2 + \frac{L^2}{2 M r^2} - \frac{GMm}{r}$ I At $r = R$: $E = \frac{1}{2} M v^2 - \frac{GMm}{R}$ At Maximum Height : $\dot{r} = 0$ $\frac{1}{2} M v^2 - \frac{GMm}{R} = \frac{L^2}{2 M R^2} - \frac{GMm}{R}$ $\frac{1}{2} M v^2 - \frac{GMm}{R} = \frac{L^2}{2 M R^2} - \frac{GMm}{R}$ $\frac{1}{2} M v^2 = \frac{L^2}{2 M R^2}$ $v^2 = \frac{L^2}{M^2 R^2}$ $v = \frac{L}{M R}$ I Solve And Take The Positive Root I Note From Equ.(1) : When $R \rightarrow \infty$ As $R \rightarrow \infty$, The Rocket Just ... 1th, 2024.

ENERGY 5.1 Conservative Forces Examples 5.2 Potential With Turning Points 5.2.1 Oscillation About Stable Equilibrium 5.2.2 Bounded And Unbounded Potentials 2. 5.1 Conservative Forces $W_{AB} = \int_B^A \mathbf{F} \cdot d\mathbf{r} = U(a) - U(b)$ For A Conservative field Of Force, The Work Done Depends Only On The End Points. 1th, 2024 Lecture Notes In Classical Mechanics (80751) According To Classical Physics, "reality" Takes Place In A Product Space $R^3 \times R$, Where R^3 Represents Space And R Represents Time. The Notions Of Space And Time Are Axiomatic In Classical Physics, Meaning That They Do Not Deserve A Definition. (In Relativistic Physics, The Notions Of Space And Time Are Intermingled, And One Cannot Separate Them.) 1th, 2024 Classical Mechanics LECTURE 16: ORBITS : CENTRAL FORCES 16.3.2 Example : Solution I $U(r) = -\frac{GMm}{r}$ I $J = L$ $J = Mvr \sin \theta$ I Energy Equation : $E = \frac{1}{2} M \dot{r}^2 + \frac{1}{2} M r^2 \dot{\theta}^2 + U(r)$ $E = \frac{1}{2} M \dot{r}^2 + \frac{L^2}{2Mr^2} - \frac{GMm}{r}$ I At $R = A$: $E = \frac{1}{2} M v^2 - \frac{GMm}{A}$ At Maximum Height : $\dot{r} = 0$ $\frac{1}{2} M v^2 - \frac{GMm}{A} = \frac{L^2}{2MA^2} - \frac{GMm}{A}$ $\frac{L^2}{2MA^2} = \frac{1}{2} M v^2$ $\sin^2 \theta = \frac{L^2}{M^2 v^2 r^2}$ Max $\frac{L^2}{M^2 v^2 r^2} = \frac{L^2}{M^2 v^2 A^2}$ $\sin^2 \theta = \frac{A^2}{r^2}$ $\sin \theta = \frac{A}{r}$ I Solve And Take The Positive Root I Note From Equ.(1) : When $r \rightarrow 0$ As $r \rightarrow A$, The Rocket Just ... 1th, 2024.