



NOTE: Attempt FOUR questions, selecting at least ONE question from each section. All Questions carry equal marks.

SECTION – I

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- Q.1 A particle of mass m moves without friction under the action of gravitation on the inner surface of paraboloid, which is given by
- $$x^2 + y^2 = ax$$
- and having kinetic energy

$$T = \frac{1}{2} m (\dot{r}^2 + r^2 \dot{\theta}^2 + \dot{z}^2)$$

- a) Construct the Lagrangian and derive the equation of motion for r by using Euler Lagrange equation. (04)
- b) Show that the particle moves on a horizontal circle in the plane $z = h$, provided that it gets an initial angular velocity. Find this angular velocity. (04)
- c) Show that the particle oscillates about the circular orbit if it is displaced only weakly. Determine the oscillation frequency. (4½)

- Q.2 A particle moves in a force field described by

$$F(r) = -\frac{k}{r^2} \exp\left(-\frac{r}{a}\right)$$

where k and a are positive.

- a) Write the equations of motion and reduce them to the equivalent one-dimensional problem. (04)
- b) Use the effective potential to discuss the qualitative nature of the orbits for different values of the energy and the angular momentum. (04)
- c) Show that if the orbit is nearly circular, the apsides will advance approximately by $\frac{\pi p}{a}$ per revolution, where p is the radius of the circular orbit. (4½)

- Q.3 a) Discuss the motion of a body of mass μ in a central force field with the Lagrangian (06)

$$L = \frac{1}{2} \mu (\dot{r}^2 + r^2 \dot{\theta}^2) - V(r)$$

use the angular momentum l and total energy E (constants of motion) to derive the equation

$$\frac{d^2}{d\theta^2} \left(\frac{1}{r} \right) + \frac{1}{r} = -\frac{\mu r^2}{l^2} f \left(\frac{1}{r} \right)$$

Where $f \left(\frac{1}{r} \right)$ is the force law.

- b) Find the force law for a central force field that allows a particle to move in a logarithmic spiral orbit given by (6½)

$$r = k \exp(\alpha \theta)$$

where k and α are constants. Also calculate the total energy of the orbit.

SECTION – II

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- Q.4 a) Using the fundamental Poisson brackets find the values of α and β for which the equations (04)

$$Q = q^\alpha \cos \beta p,$$

$$P = q^\alpha \sin \beta p$$

represent a canonical transformation.

Ocr A Physics Mechanics 2013 Past Paper

Kiyoshi Kanazawa



Ocr A Physics Mechanics 2013 Past Paper:

Statistical Mechanics for Athermal Fluctuation Kiyoshi Kanazawa, 2017-11-20 The author investigates athermal fluctuation from the viewpoints of statistical mechanics in this thesis Stochastic methods are theoretically very powerful in describing fluctuation of thermodynamic quantities in small systems on the level of a single trajectory and have been recently developed on the basis of stochastic thermodynamics This thesis proposes for the first time a systematic framework to describe athermal fluctuation developing stochastic thermodynamics for non Gaussian processes while thermal fluctuations are mainly addressed from the viewpoint of Gaussian stochastic processes in most of the conventional studies First the book provides an elementary introduction to the stochastic processes and stochastic thermodynamics The author derives a Langevin like equation with non Gaussian noise as a minimal stochastic model for athermal systems and its analytical solution by developing systematic expansions is shown as the main result Furthermore the author shows a thermodynamic framework for such non Gaussian fluctuations and studies some thermodynamics phenomena i e heat conduction and energy pumping which shows distinct characteristics from conventional thermodynamics The theory introduced in the book would be a systematic foundation to describe dynamics of athermal fluctuation quantitatively and to analyze their thermodynamic properties on the basis of stochastic methods **CERN Courier** ,2014

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