

Vocabulary Terms

Be able to say something intelligent about each one

An example is something intelligent

Action
Action-angle variables
Active sense, rotation
Adiabatic invariant
Angular momentum
Areal velocity
Attractor
Bifurcation, chaos
Boost
Calculus of variations
Canonical momentum
Canonical transformation
Centrifugal force
Conjugate momentum
Constant of motion
Constraint
Coriolis force
Cyclic coordinate
Degrees of freedom
Eigenvalues, oscillation
Electromagnetic lagrangian
Euler angles
Euler equations
Euler-Lagrange equation
Field theory
Four-vector
Fractal
Functional
Galilean transformation
Generalized potential energy
General relativity
Generating function
Hamiltonian
Hamilton-Jacobi theory
Hamilton's principle
Harmonic oscillator
Inertia tensor
Jacobi integral
J-matrix
KAM theorem
Kinetic energy
Lagrangian

Lagrangian density
Length contraction
Liapunov exponent
Libration, action angle
Liouville theorem
Lorentz transformation
M-matrix
Newton's laws of motion
Noether's theorem
Nutation
Orthogonal matrix
Passive sense, rotation
Pendulum equation
Perturbation theory
Poisson bracket
Potential energy
Precession
Principal axes, moment of inertia
Principal moments, moment of inertia
Proper time
Repulsive centrifugal barrier
Rotation, action angle
Rotation matrix
Secular terms, perturbation theory
Sensitivity to initial conditions
Sleeping top
Spacetime
Special relativity
Strange attractor
Thomas precession
Time dilation
Time dilation
Twin paradox
Velocity addition law, relativity
Work