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Physics 316--Classical Mechanics

For example, consider a falling body. $F=mg$ gives $-mg=ma$, which can be written as $-g=\ddot{y}$, where a dot denotes a time derivative. This is a rather simple differential equation, and you can quickly guess that $y(t)=-gt^2/2$ is a solution. Or, more generally with the constants of integration thrown in, $y(t)=y_0+v_0t-gt^2/2$.

Introduction to Classical Mechanics With Problems and ...

solution: Let the frictional force be of the form $f_i = -P \dot{x}_i$. Take the virial to be $G = \sum_i \mathbf{r}_i \cdot \mathbf{p}_i + \frac{1}{2} \sum_i m_i \dot{\mathbf{r}}_i^2$ taking the time derivative of G gives, $dG/dt = 2T + \sum_i \mathbf{r}_i \cdot \mathbf{F}_i$ and follow the steps in page No. 83, Goldstein, Classical Mechanics, Second Edition. 5

Solutions for Classical Mechanics - Goldstein

The classical approach of this leading text book has been revised and updated A section on the Euler and Lagrange exact solutions to the three-body problem A section on the damped driven oscillator as an example of the workings of the Josephson junction Chapter on canonical perturbation theory has been streamlined and the mathematics has been simplified Approximately 45 new problems, mostly in ...

Classical Mechanics: Amazon.co.uk: Herbert Goldstein ...

Solved Problems in Classical Mechanics $v(t) = \frac{dr(t)}{dt}$, (1) and the acceleration $a(t)$, which is the time rate of change of the velocity, $a(t) = \frac{dv(t)}{dt}$. (2) It follows from (1) and (2) that the acceleration is also the second derivative $a = \frac{d^2r}{dt^2}$. (3) Sometimes use is made of Newton's notation, where a dot denotes differentiation with

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