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that for a single  
particle with constant  
mass the equation of  
motion implies the  
following differential  
equation for the kinetic  
energy:  $dT/dt = \mathbf{F} \cdot \mathbf{v}$

while if the mass varies  
with time the

corresponding  
equation is  $d(mT)/dt =$

$\mathbf{F} \cdot \mathbf{p}$ . Answer:  $dT/dt =$   
 $d(\frac{1}{2}mv^2)/dt = m\mathbf{v} \cdot \mathbf{v}'$   
 $= m\mathbf{a} \cdot \mathbf{v} = \mathbf{F} \cdot \mathbf{v}$

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solutions to the  
problems proposed in  
the book "Classical  
Mechanics", 3th  
Edition, by Herbert  
Goldstein. The  
solutions are limited to  
chapters 1, 2 ...

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that for a single particle with constant mass the equation of motion implies the following differential equation for the kinetic energy:  $dT/dt = \mathbf{F} \cdot \mathbf{v}$  while if the mass varies with time the corresponding equation is  $d(mT)/dt \dots$

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Chapter 9 Problem 9.1

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combining the two ..

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8 Problem 8.4 The

Lagrangian for a

system can be written

as  $y$  ..

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2 CHAPTER 1.

STRATEGIES FOR  
SOLVING PROBLEMS

1.13. Atwood's  
machine (a) This gives  
 $a_1 = 0$ . (Half of  $m_2$   
balances each of  $m_1$   
and  $m_3$ .) (b) Ignore the  
 $m_2 m_3$  terms, which  
gives  $a_1 = ig$ . (Simply  
in freefall.) (c) Ignore

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## Mechanics

the terms involving  $m_1$ , which gives  $a_1 = 3g$ . ( $m_2$  and  $m_3$  are in freefall. And for every meter they go down, a total of three meters of string appears

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Chapter 1 Problem 1.1  
A nucleus, originally at  
rest, decays ...

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Chapter 1 Problem 1.2

The escape velocity of a particle on the earth is the minimum velocity required at the surface of the earth in order that the particle can escape from the earth's gravitational field.

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Goldstein 2.2 The

canonical momentum  $p$

is defined as  $p = \frac{\partial L}{\partial \dot{q}_i}$

$= \frac{\partial T}{\partial \dot{q}_i} - \frac{\partial U}{\partial \dot{q}_i}$  (1)

where  $T = T(\mathbf{r}_i; \dot{\mathbf{r}}_i)$

and  $U = U(\mathbf{r}_i; \mathbf{r}_{-i})$  are

kinetic and potential

energy of the system,

which then define the

Lagrangian  $L = T - U$ .

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### **2**

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undergraduate and beginning graduate students, it has been one of the standard references in its subject around the world since its first

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publication in 1951.

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### **Classical Mechanics (Goldstein book) - Wikipedia**

Chapter eleven, I think, could have done a better job motivating and exploiting Poincaré maps, or first-return maps. Instead, the chapter draws too much attention to the logistic map, which makes that part of the book seem detached from the rest of the

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book (which is on  
Mechanics, therefore,  
differential equations  
-not maps).

## **Classical Mechanics (3rd Edition): Goldstein, Herbert**

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