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went to hear him, and

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that oftimes he did, for

want of hearers, read

to the walls. He

usually stayed about

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to  $F = ma$  if  $\dot{m} = 0$ .

But if  $m = m(t)$  (e.g. in

rocket science) then

the form with  $p_{\dot{}}$  is

correct. General

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theorems governing differential equations guarantee that if we are given  $r$  and  $\dot{r}$  at an initial time  $t = t_0$ , we can integrate equation (1.1) to determine  $r(t)$  for all  $t$  (as long as  $F$  remains finite). This is the goal of classical dynamics.

{ 2

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Classical mechanics is a physical theory describing the motion of macroscopic objects, from projectiles to parts of machinery, and astronomical objects, such as spacecraft, planets, stars and galaxies. For objects governed by classical mechanics, if the

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present state is known, it is possible to predict how it will move in the future (determinism) and how it has moved in the past (reversibility).

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Lagrangian of a  
particle of mass  $m$   
and charge  $q$  moving  
in an electromagnetic  
field described by  
scalar and vector  
potentials  $(\phi; \mathbf{A})$  and  $\mathbf{A}$   
 $(\phi; \mathbf{A})$  is  $L = \frac{1}{2} m \dot{\mathbf{r}} \cdot \dot{\mathbf{r}} + q(\phi - \dot{\mathbf{r}} \cdot \mathbf{A})$ ; where  
 $\mathbf{r}(t)$  is the position  
vector of the particle

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and  $r_{\dot{}} = dr/dt$ . (a)

Show that Lagrange's equations are equivalent to the equation of motion

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205 3.6 Problems 206

4 Equations of motion: differential approach

4.1 Quasi-coordinates and quasi-velocities

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Total energy of system:  $E = T + V$ .

Kinetic energy:  $T = \frac{1}{2} m \dot{\theta}^2$

Potential energy:  $V = mgy(\theta) = mgl(1 - \cos \theta)$

$\frac{dE}{dt} = \frac{dT}{dt} + \frac{dV}{dt} = m\dot{\theta} \ddot{\theta} + mgl \sin \theta \dot{\theta}$

$= m\dot{\theta} (\ddot{\theta} + g \sin \theta) = 0$

so, either the system is stationary ( $\dot{\theta} = 0$ ) or:

$\ddot{\theta} + g \sin \theta = 0$

$\ddot{\theta} = -g \sin \theta$  - Note:

$\ddot{\theta} = -g \sin \theta$

$\ddot{\theta} = -g \sin \theta$

$\ddot{\theta} = -g \sin \theta$

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