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$0 = GM_e/R$ .  $2 e =$   
 $980 \text{ cm/s}^2$ . We  
use a locally  
orthonormal  
coordinate  
system

$\{\hat{r}, \hat{\theta}, \hat{\phi}\}$  and

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write  $\hat{r} =$

$x\hat{\theta} + y\hat{\phi}$

$+ (R_e + z)\hat{r}$ ,

(12.40) where

$R_e = 6.4 \times 10^6 \text{m}$

is the radius of

the earth.

Expressing  $\hat{z}$  in

terms of our

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triad,  $\hat{z} =$

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(12.41) where  $\theta$

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advanced math  
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makes deriving  
two of the three  
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simpler. By  
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acceleration is  
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introduction to  
classical  
mechanics for  
students who

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are comfortable  
with calculus.

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are: Vectors,

Kinematics,  
Forces, Motion,

Momentum,  
Energy, Angular

Motion, Angular  
Momentum,

Gravity,

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revolution had bequeathed to mathematics a major program of research in analysis and mechanics. The period from 1700 to 1800, "the century of analysis," witnessed the

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