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vector is the  $dr$  particle  
displacement.  $r$  • Work  
of the force is  $F dx F$   
 $dy F dz F ds dU F dr = x$   
 $+ y+z = . = \bullet \cos\alpha r r$   
• Work is a scalar  
quantity, i.e., it has  
magnitude and sign  
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graduated from the University of Illinois at Urbana with a BS in Civil Engineering (major in Structures) and an MS in Nuclear Engineering. He obtained his PhD in Theoretical and Applied Mechanics from Northwestern University.

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Systems of Rigid  
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problems involving  
systems consisting of  
several rigid bodies,  
the principle of work  
and energy can be  
applied to each body. •  
We may also apply the  
principle of work and  
energy to the entire  
system,  $T_1 + U_{1-2} = T_2 =$

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arithmetic sum of the  
kinetic energies of

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6 kN m • Springs in

series: - determine the  
spring constant for

equivalent spring -

apply the approximate  
relations for the

harmonic motion of a

spring-mass system n

n n m k Z S W Z 2 6.93

rad s 20 kg 2400N/m

$\omega_n$  0.907 s 0.040 m

6.93 rad s v m x m Z ...

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