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vector is the dr particle displacement.  $r$

- Work of the force is  $F dx F dy F dz F ds dU F dr = x + y + z = . = \bullet \cos \alpha r r$
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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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energy to the entire  
system,  $T_1 + U_{1 \rightarrow 2} = T_2$  =  
arithmetic sum of the  
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