

Umlenkrolle mit Kräften

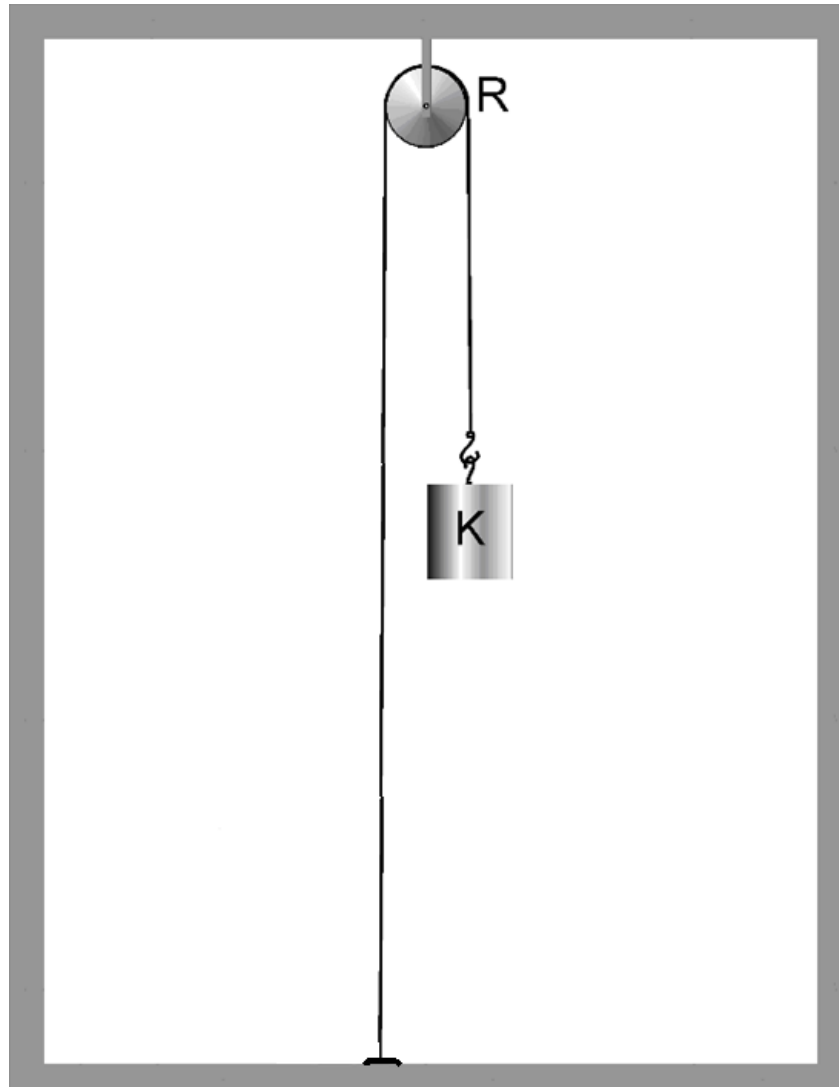
M. Pohlig



Wenn Newton das gewusst hätte...

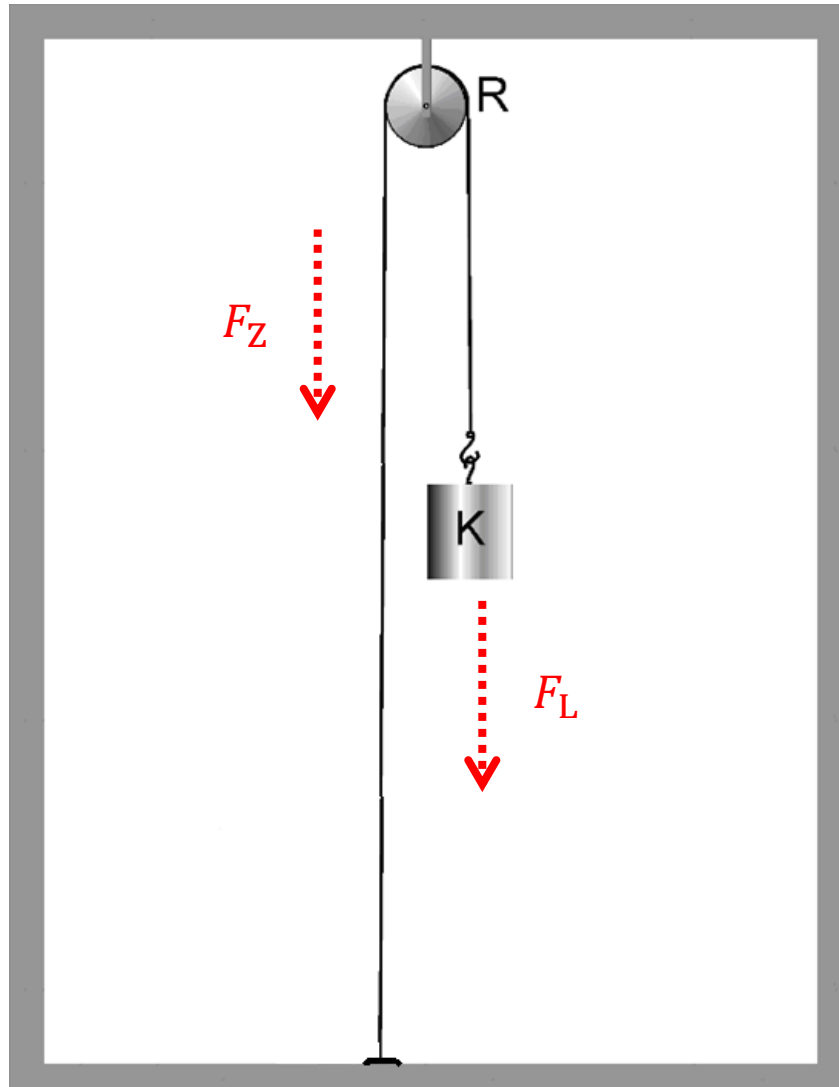
Karlsruhe 17.12.2013
Kontakt: pohlig@kit.edu

Umlenkrolle mit Kräften



Lenkt die
Umlenkrolle die
Kraft **um**?

Umlenkrolle mit Kräften



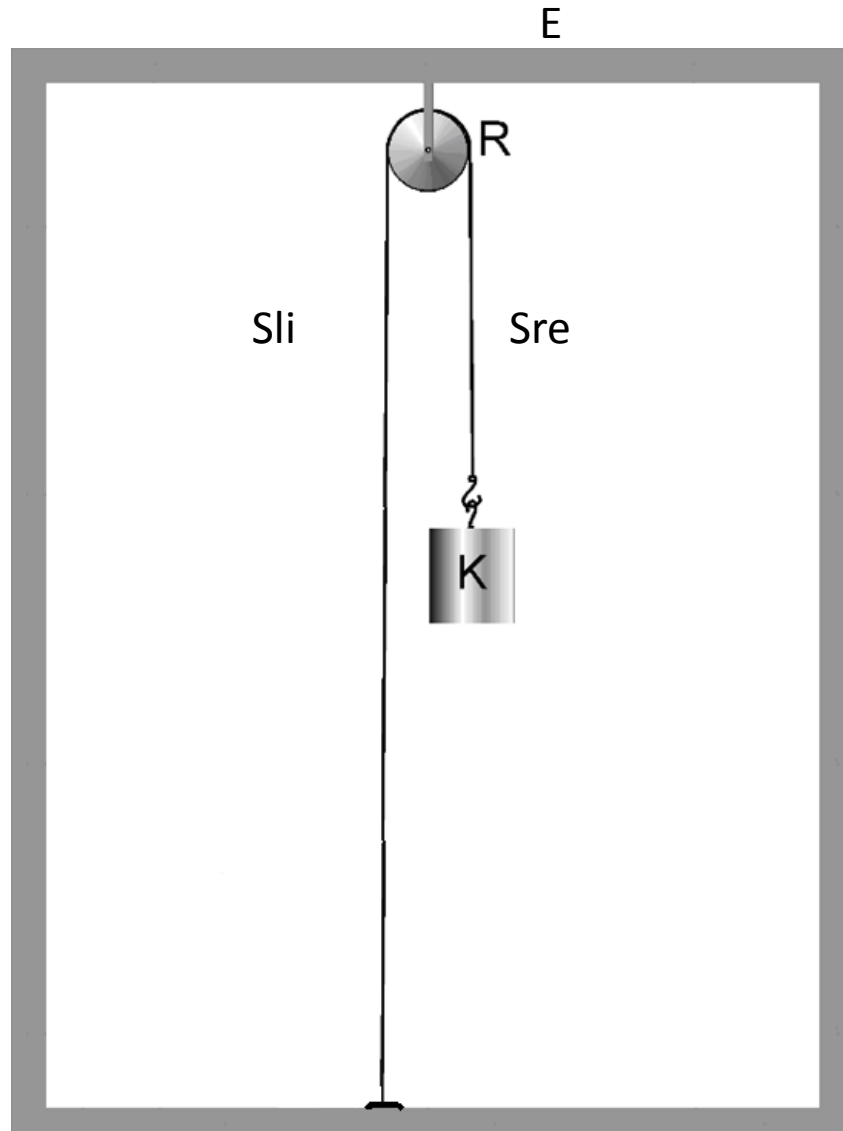
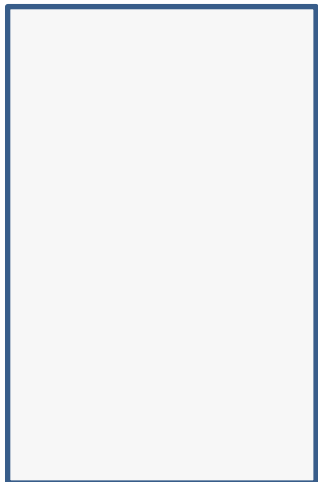
Lenkt die
Umlenkrolle die
Kraft **um**?

Umlenkrolle mit Kräften

Seil li (S_{li})



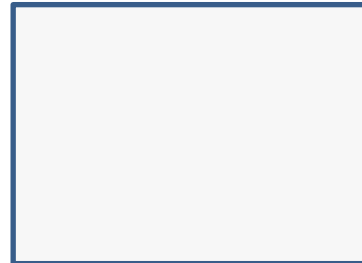
Rolle (R)



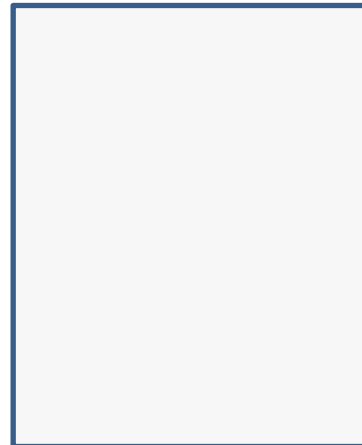
Seil re (S_{re})



Körper (K)

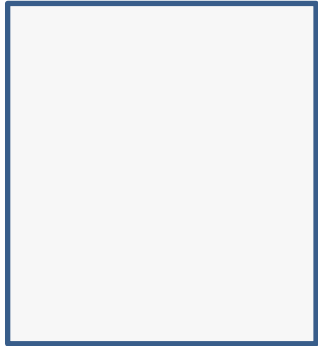


Erde (E)

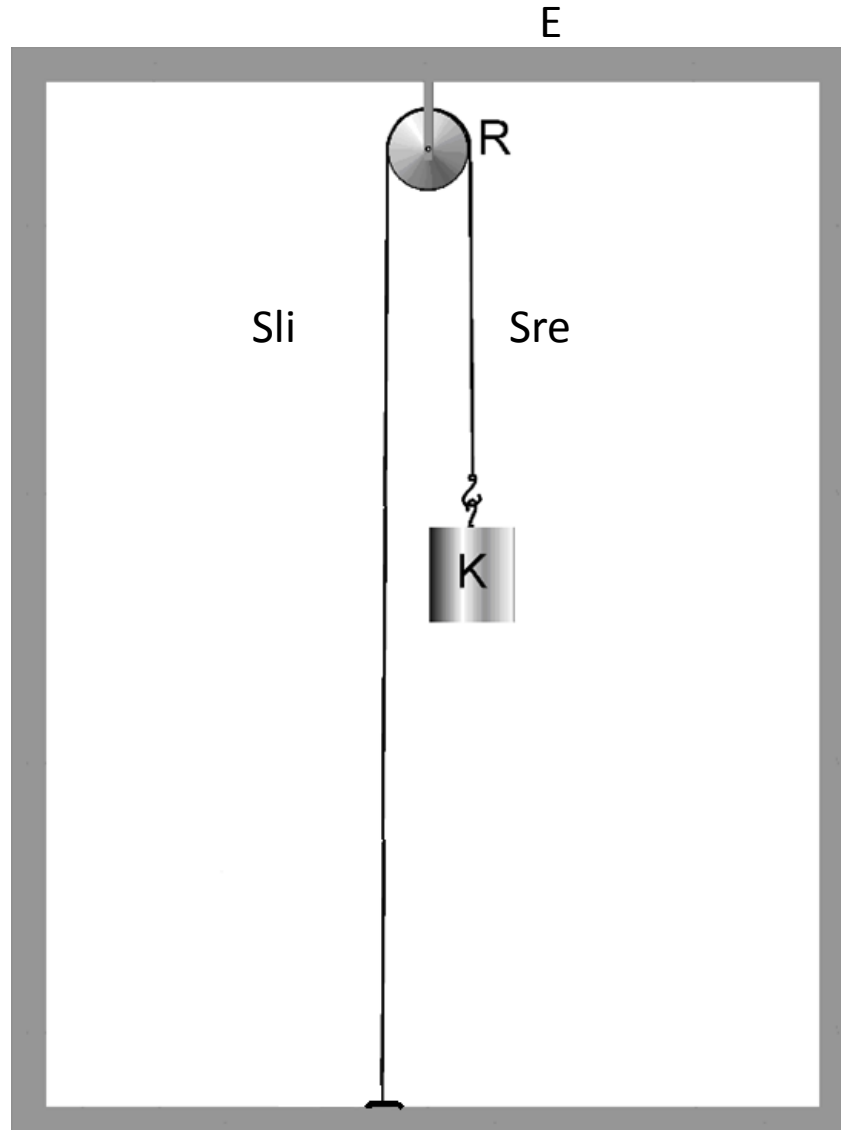
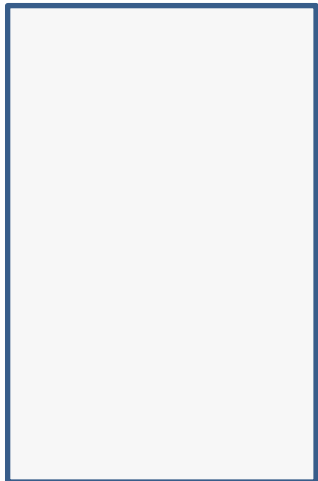


Umlenkrolle mit Kräften

Seil li (Sli)



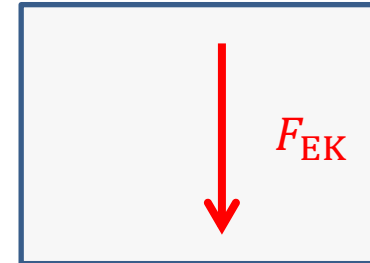
Rolle (R)



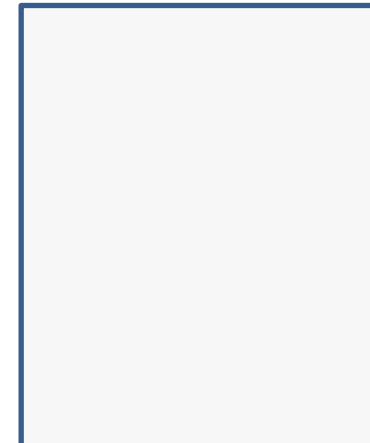
Seil re (Sre)



Körper (K)

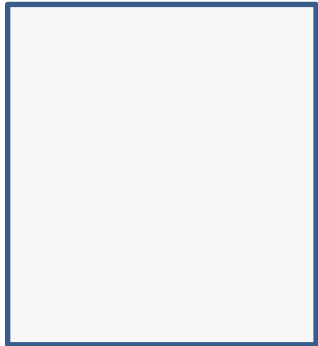


Erde (E)

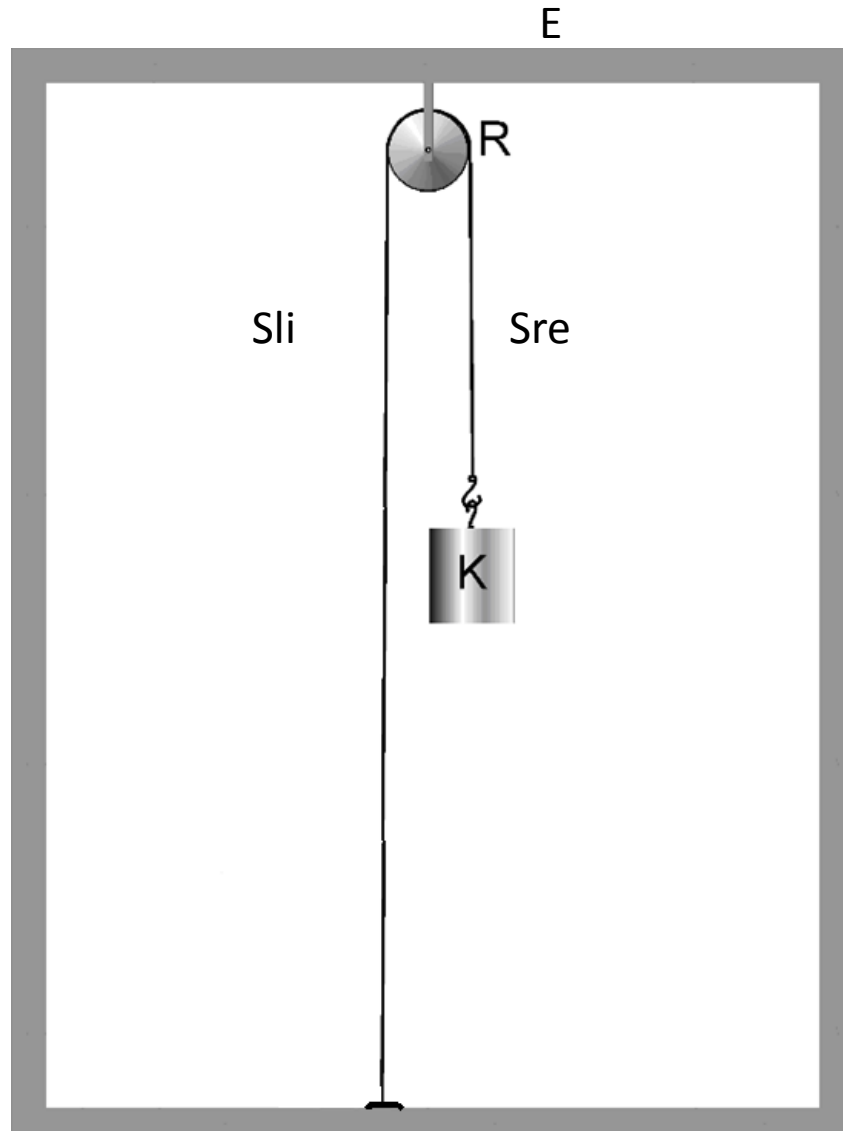
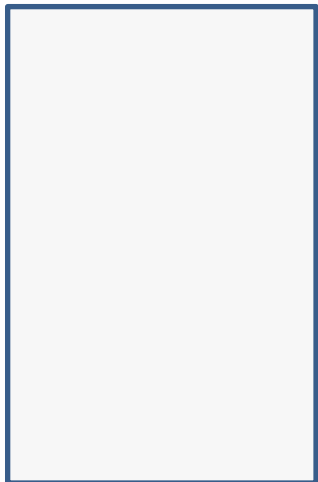


Umlenkrolle mit Kräften

Seil li (Sli)



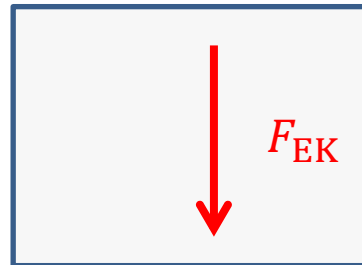
Rolle (R)



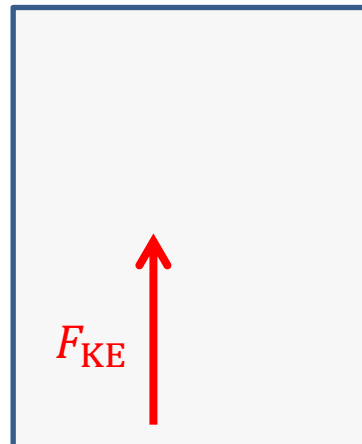
Seil re (Sre)



Körper (K)

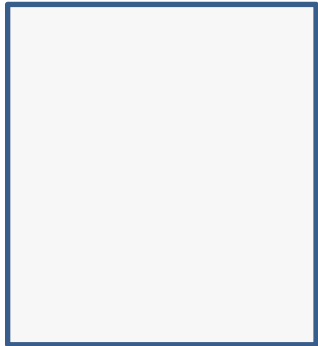


Erde (E)

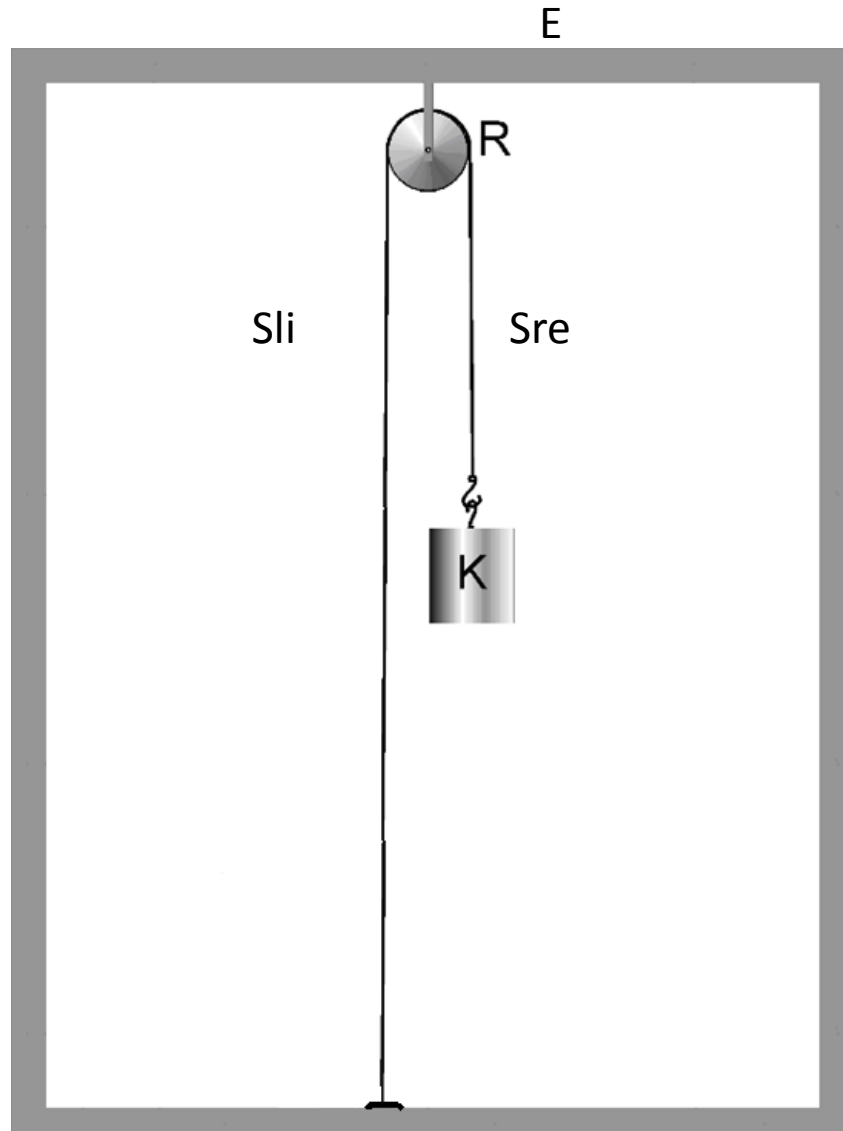
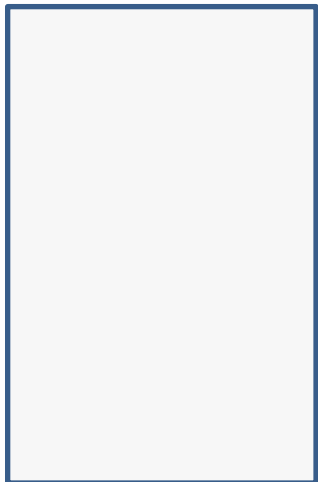


Umlenkrolle mit Kräften

Seil li (Sli)



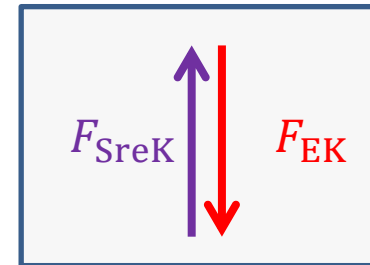
Rolle (R)



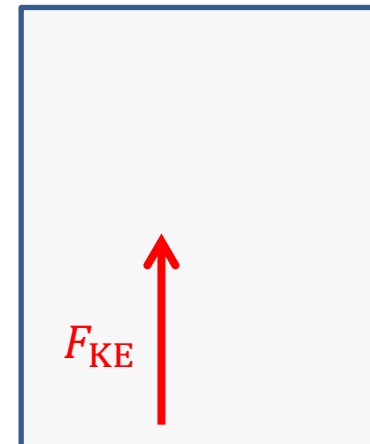
Seil re (Sre)



Körper (K)

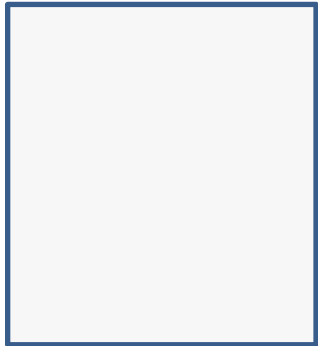


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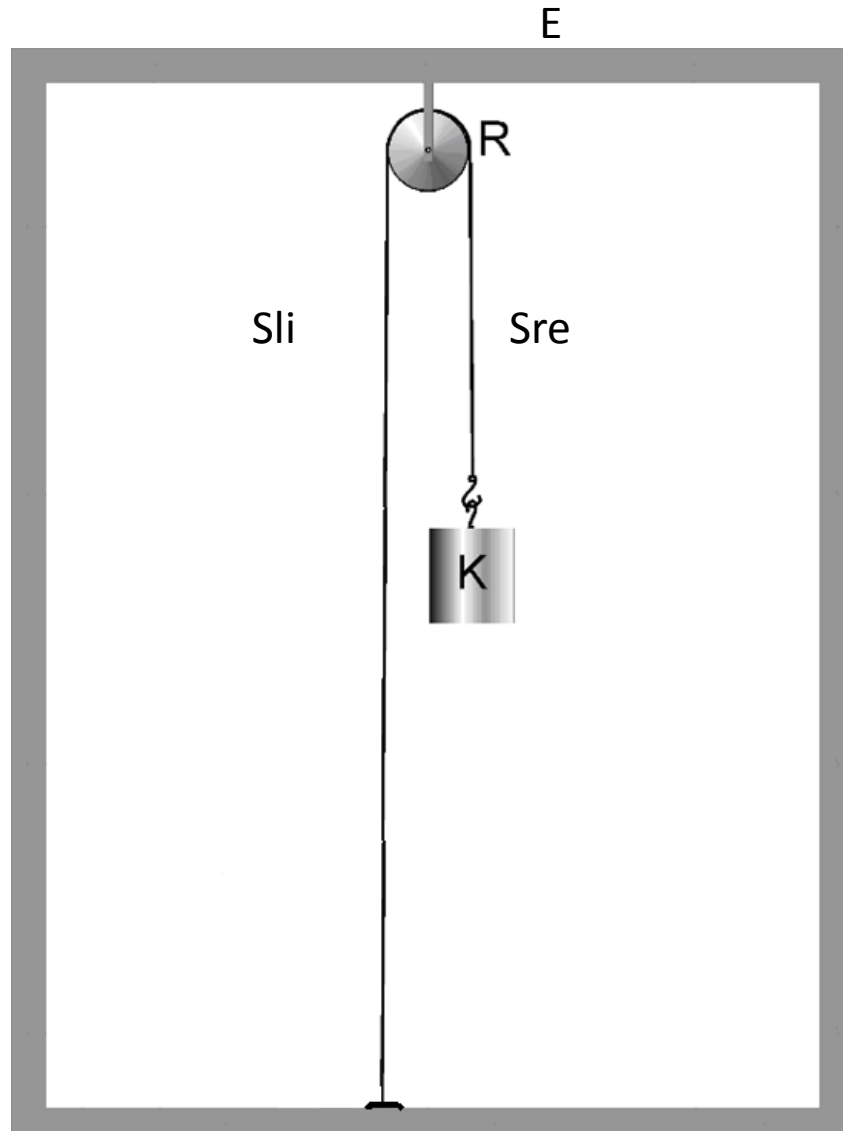
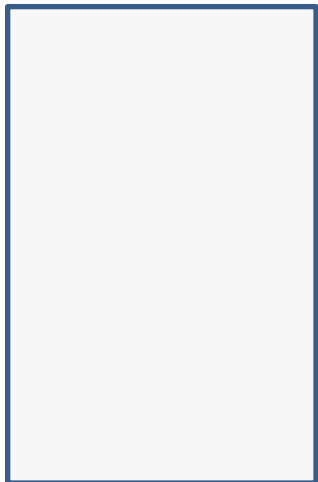


Umlenkrolle mit Kräften

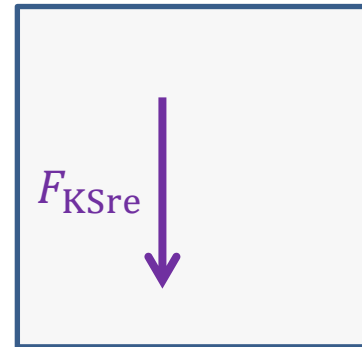
Seil li (Sli)



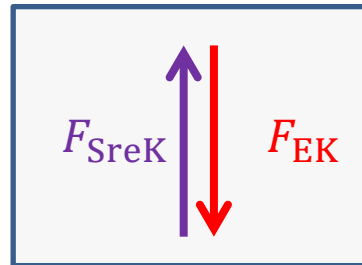
Rolle (R)



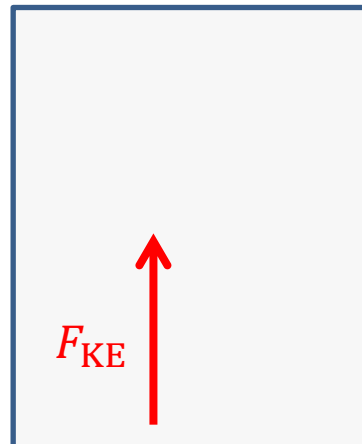
Seil re (Sre)



Körper (K)

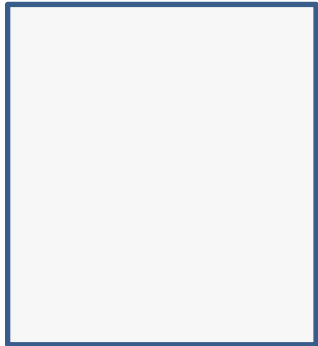


Erde (E)

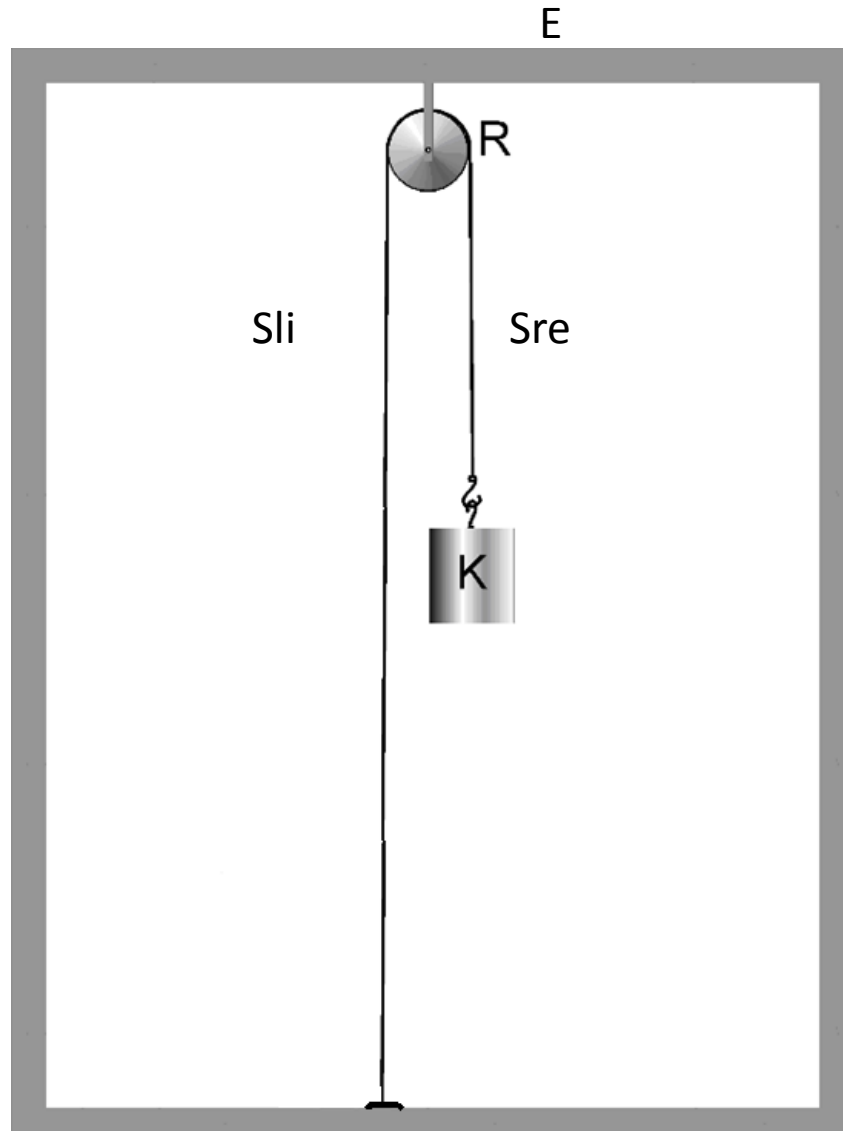


Umlenkrolle mit Kräften

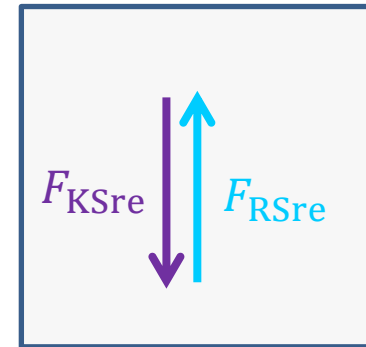
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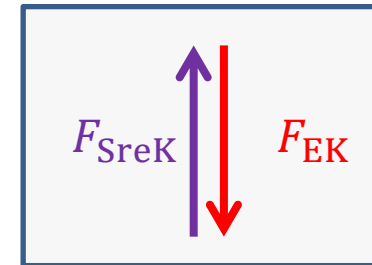
Rolle (R)



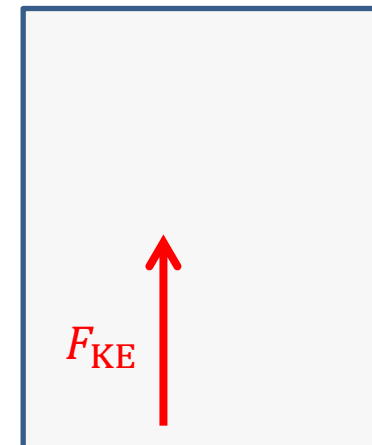
Seil re (Sre)



Körper (K)

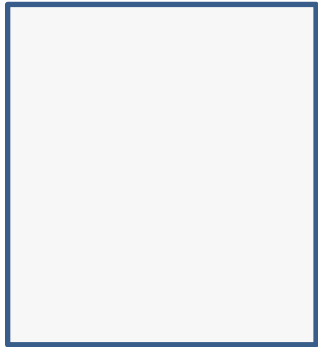


Erde (E)

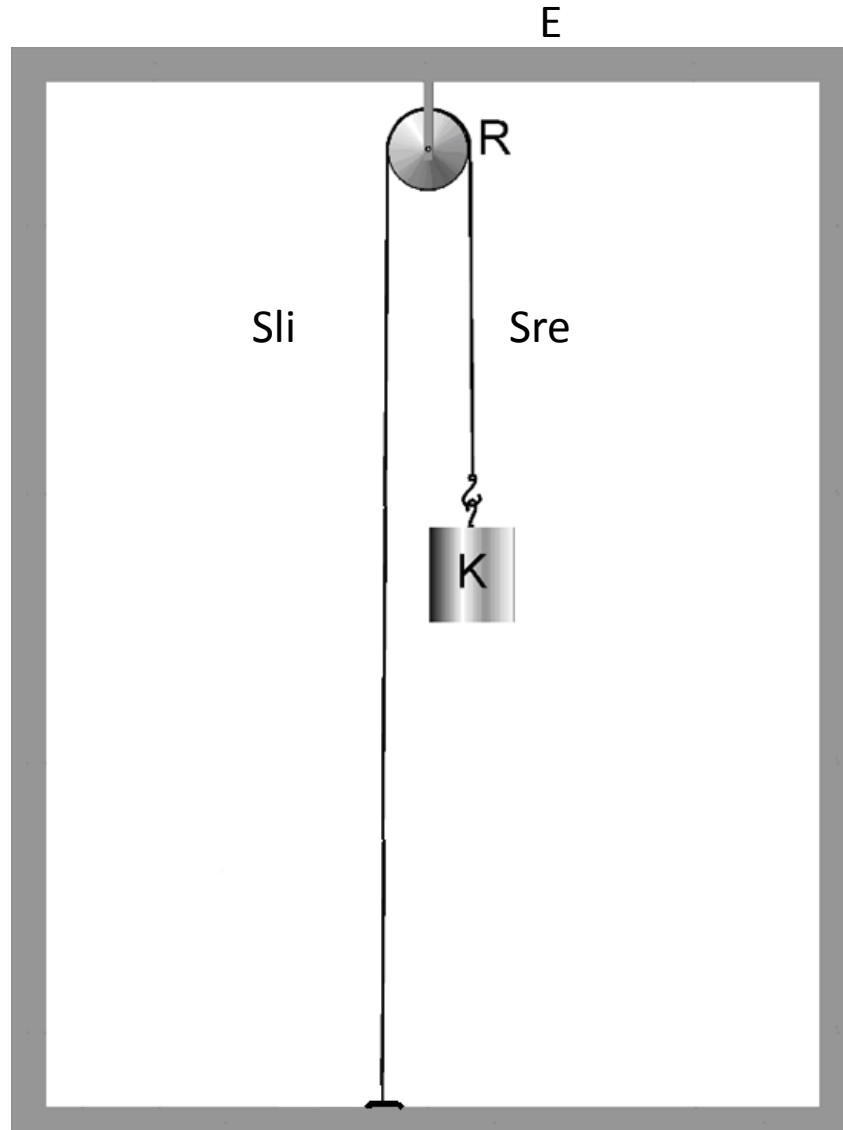
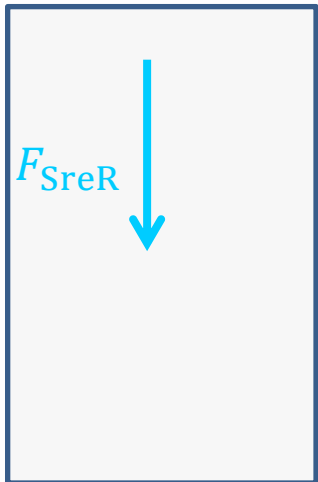


Umlenkrolle mit Kräften

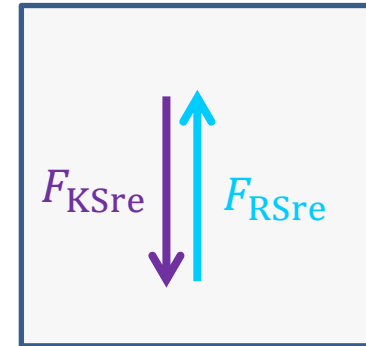
Seil li (Sli)



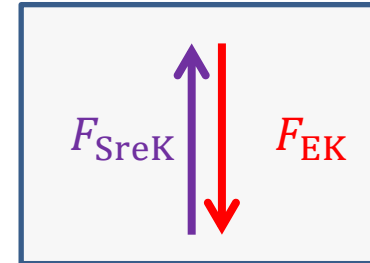
Rolle (R)



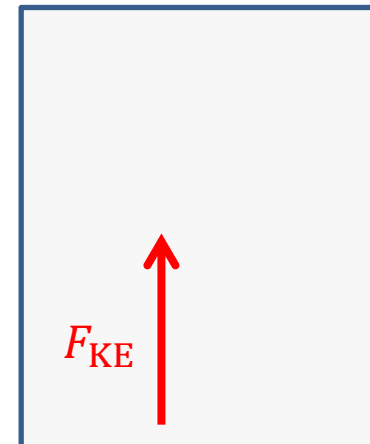
Seil re (Sre)



Körper (K)

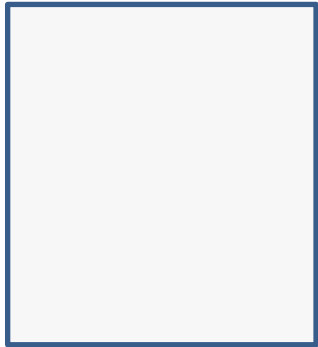


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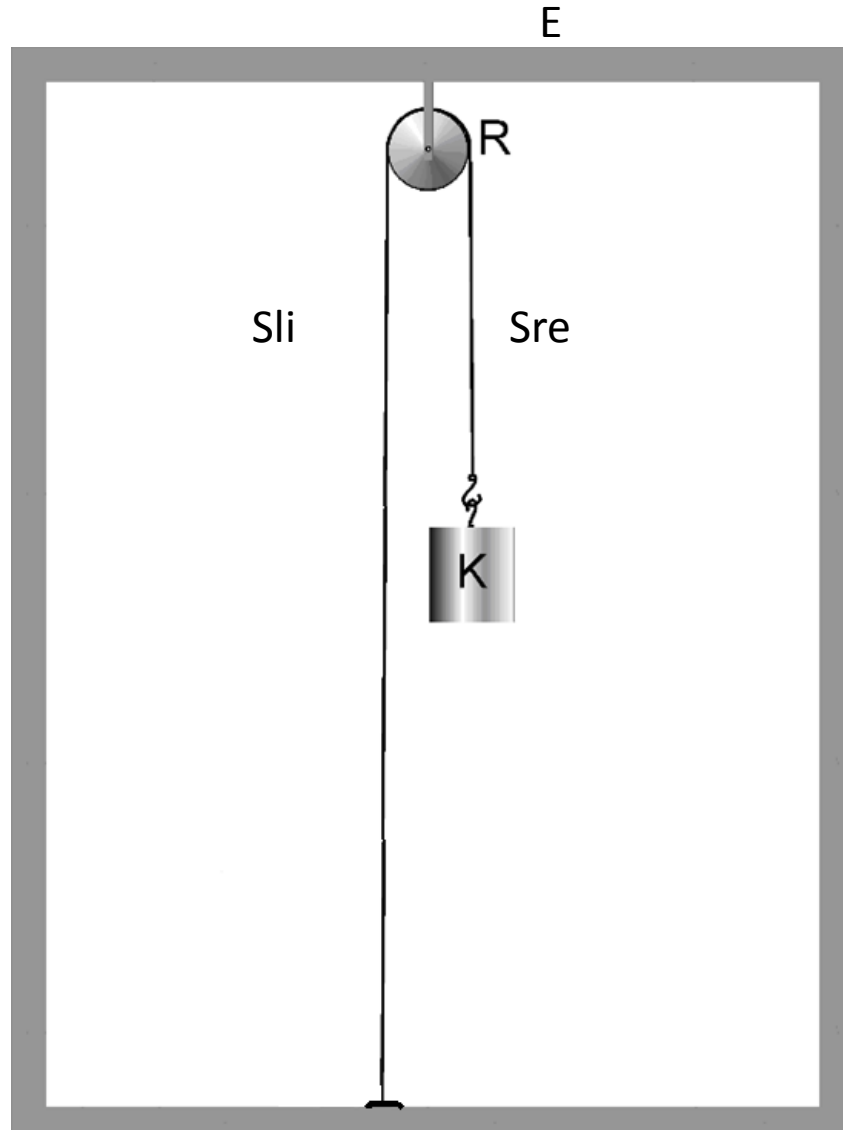
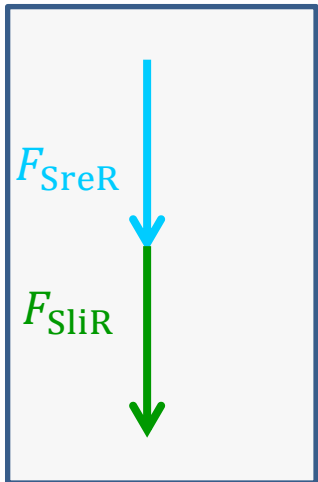


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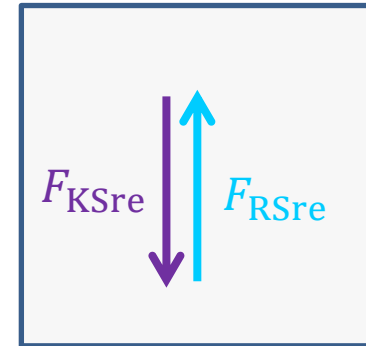
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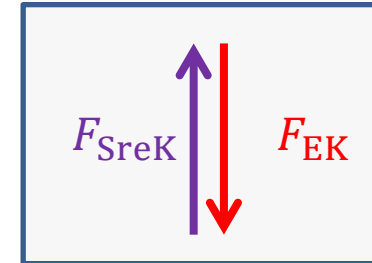
Rolle (R)



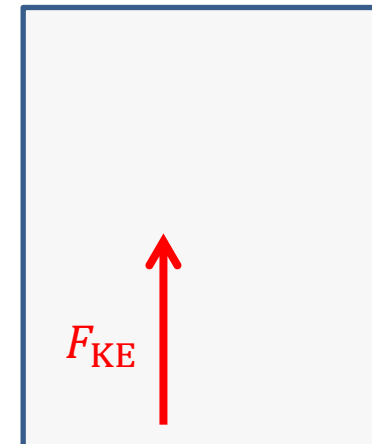
Seil re (Sre)



Körper (K)

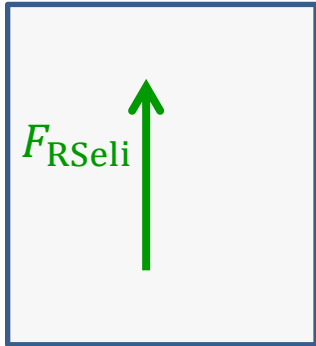


Erde (E)

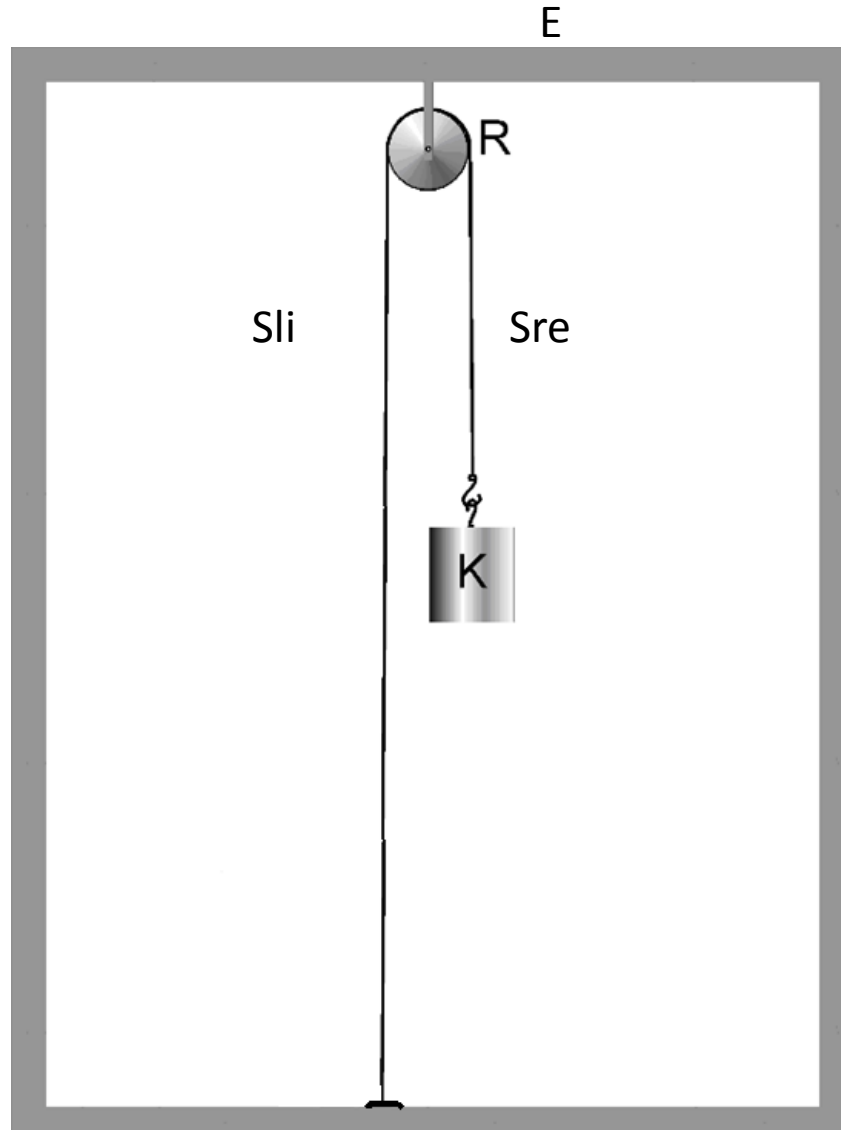
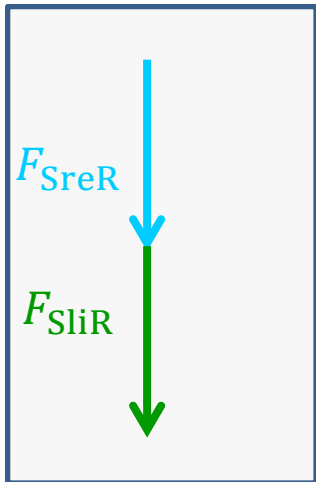


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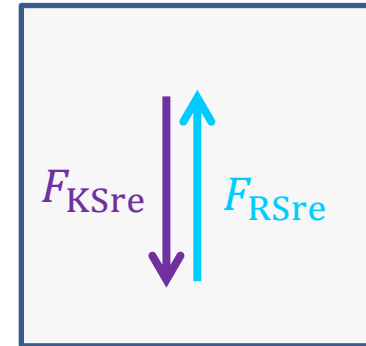
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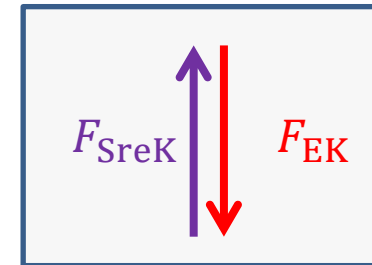
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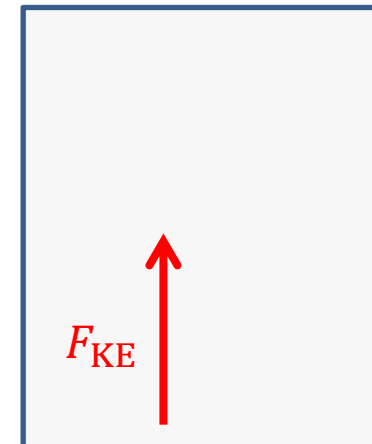
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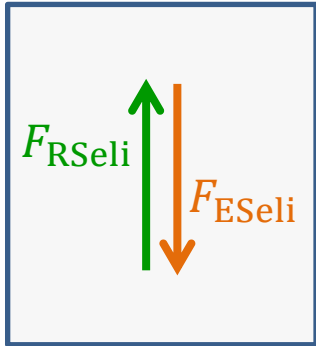


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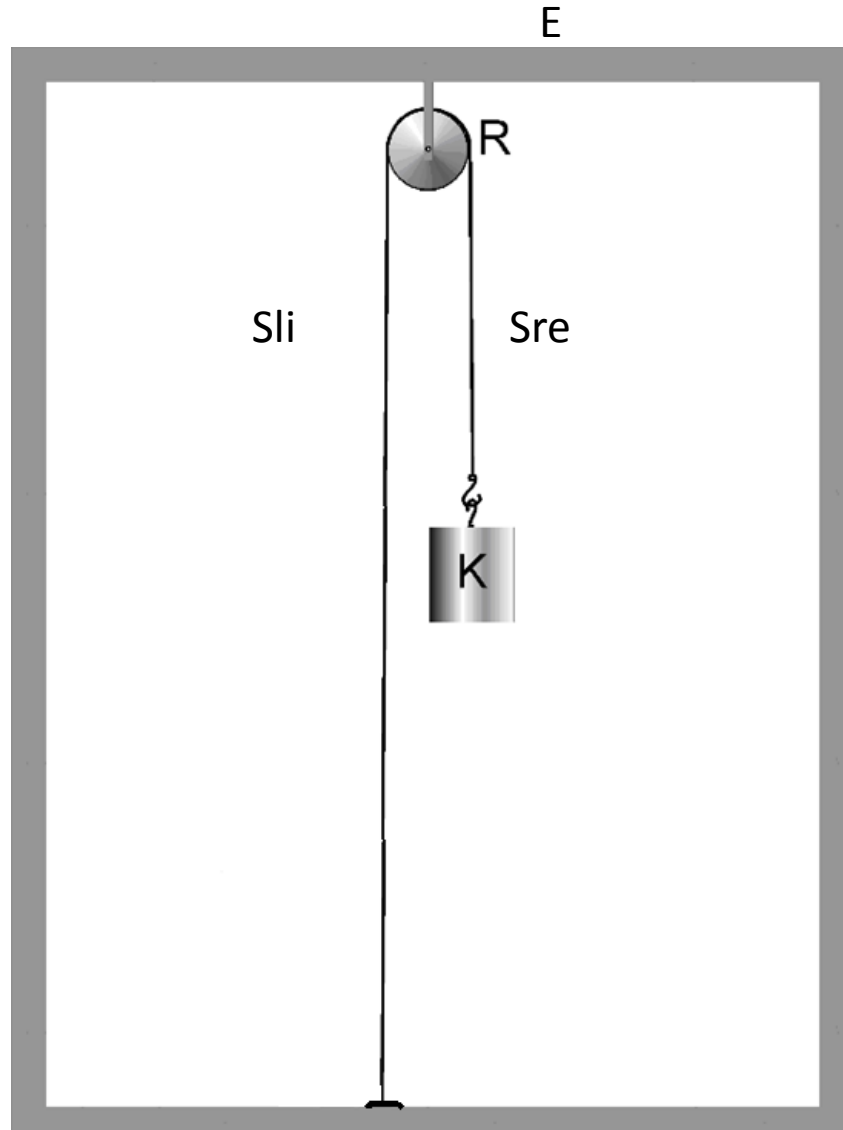
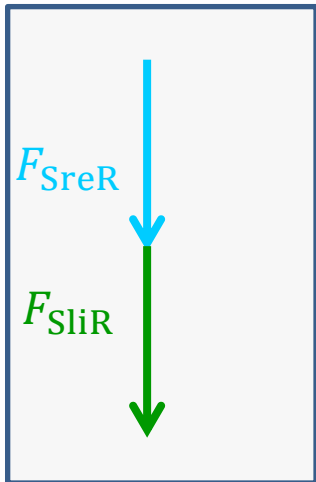


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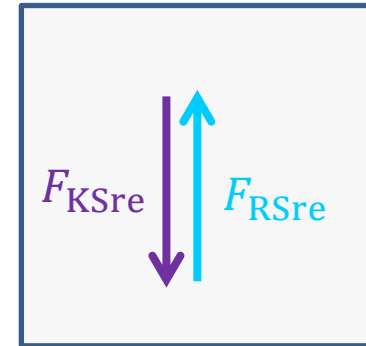
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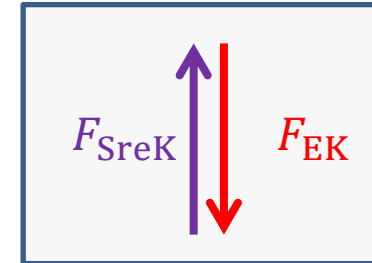
Rolle (R)



Seil re (Sre)



Körper (K)

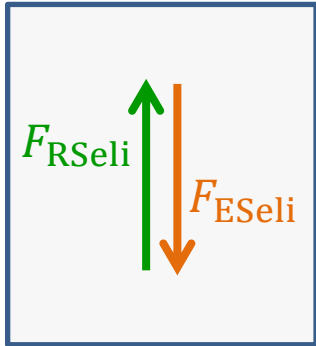


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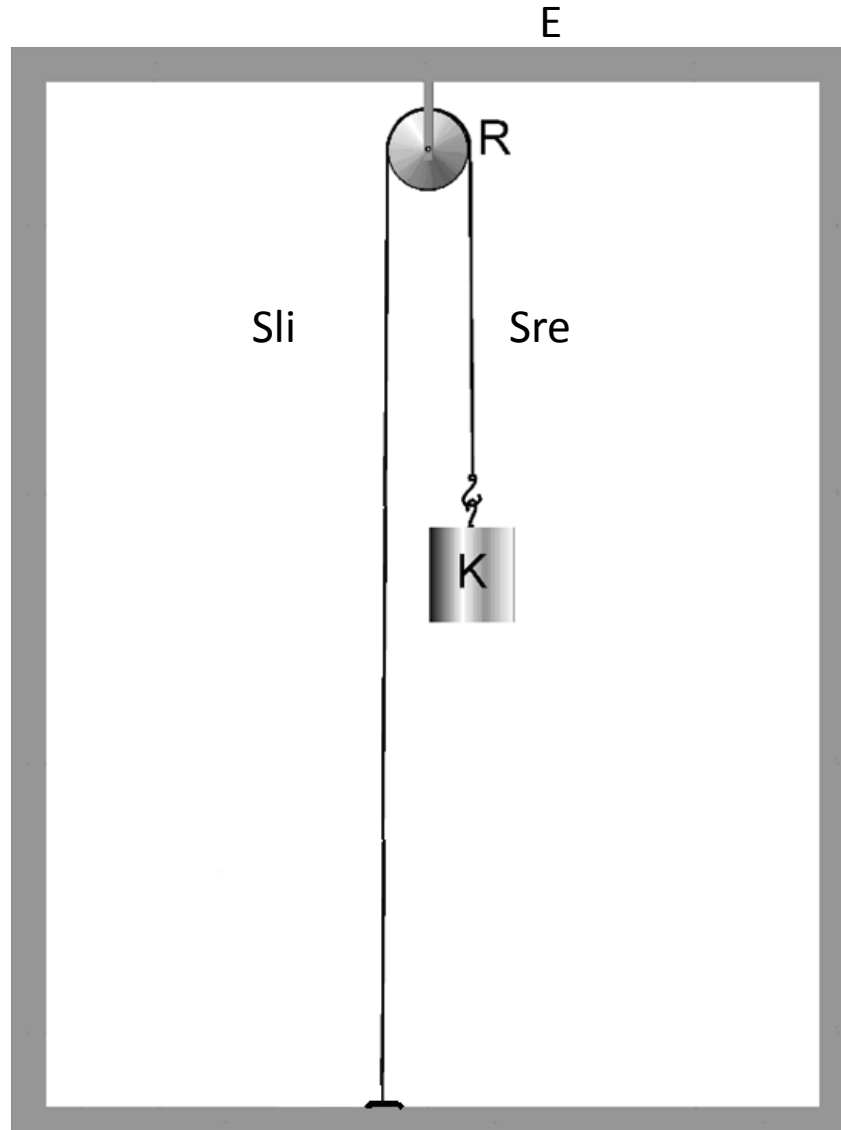
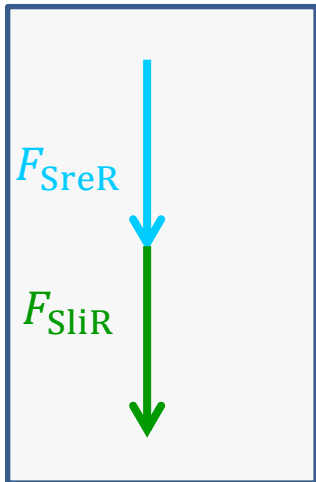


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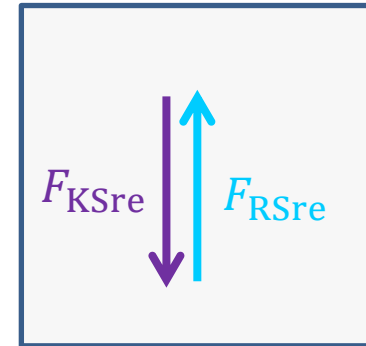
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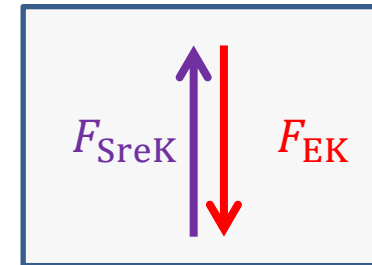
Rolle (R)



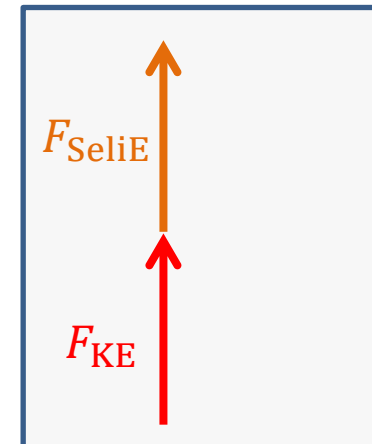
Seil re (Sre)



Körper (K)

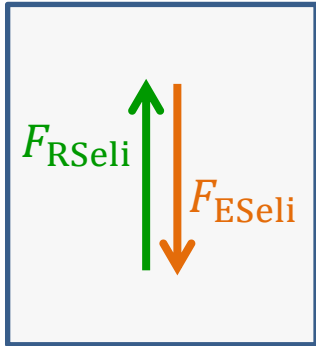


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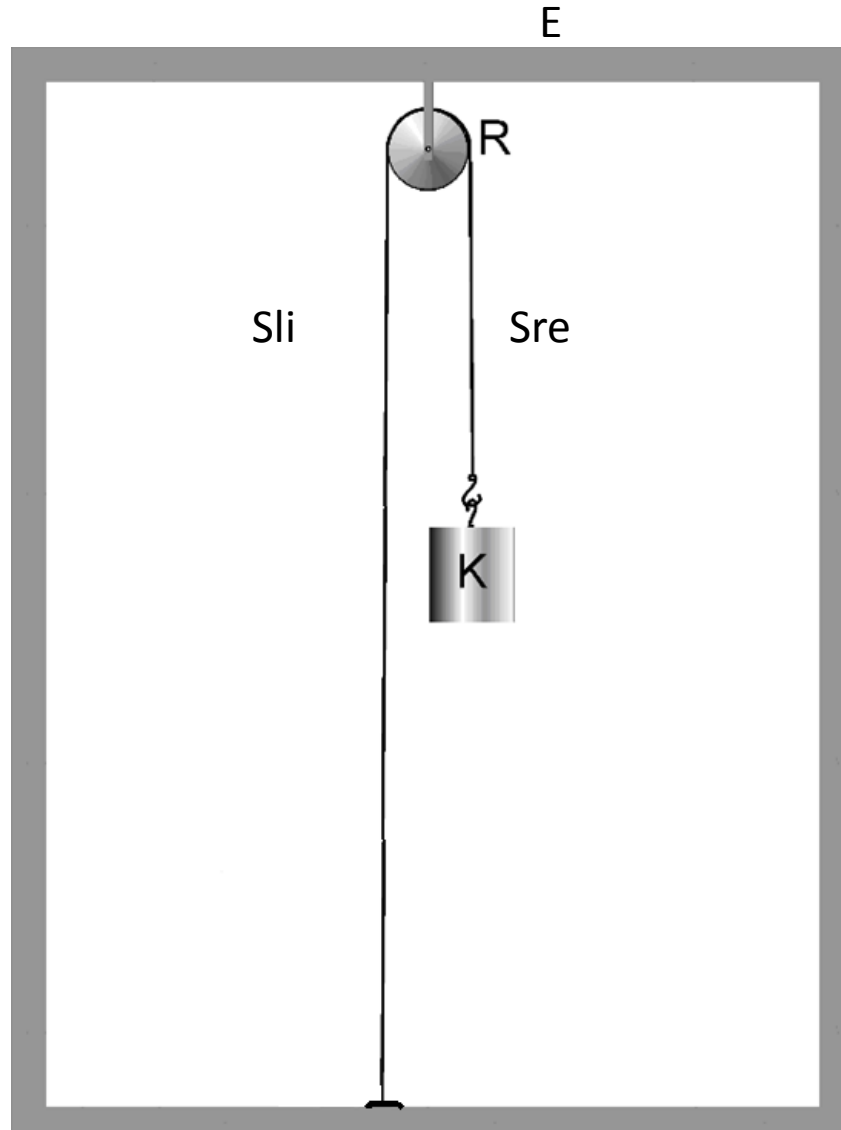
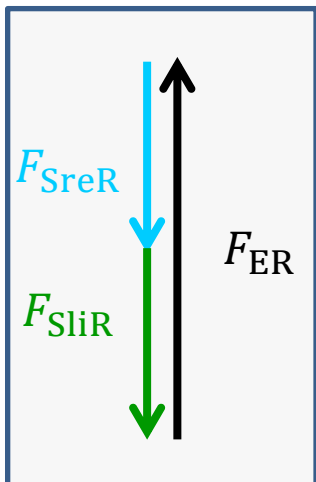


Umlenkrolle mit Kräften

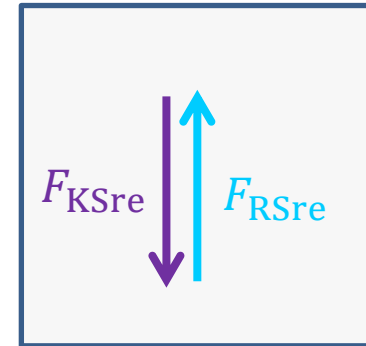
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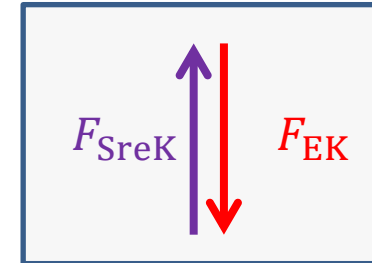
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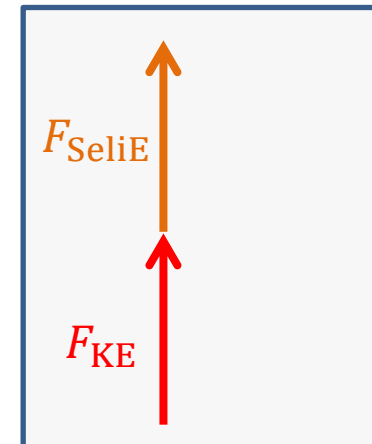
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Körper (K)

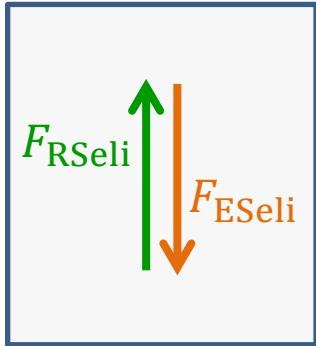


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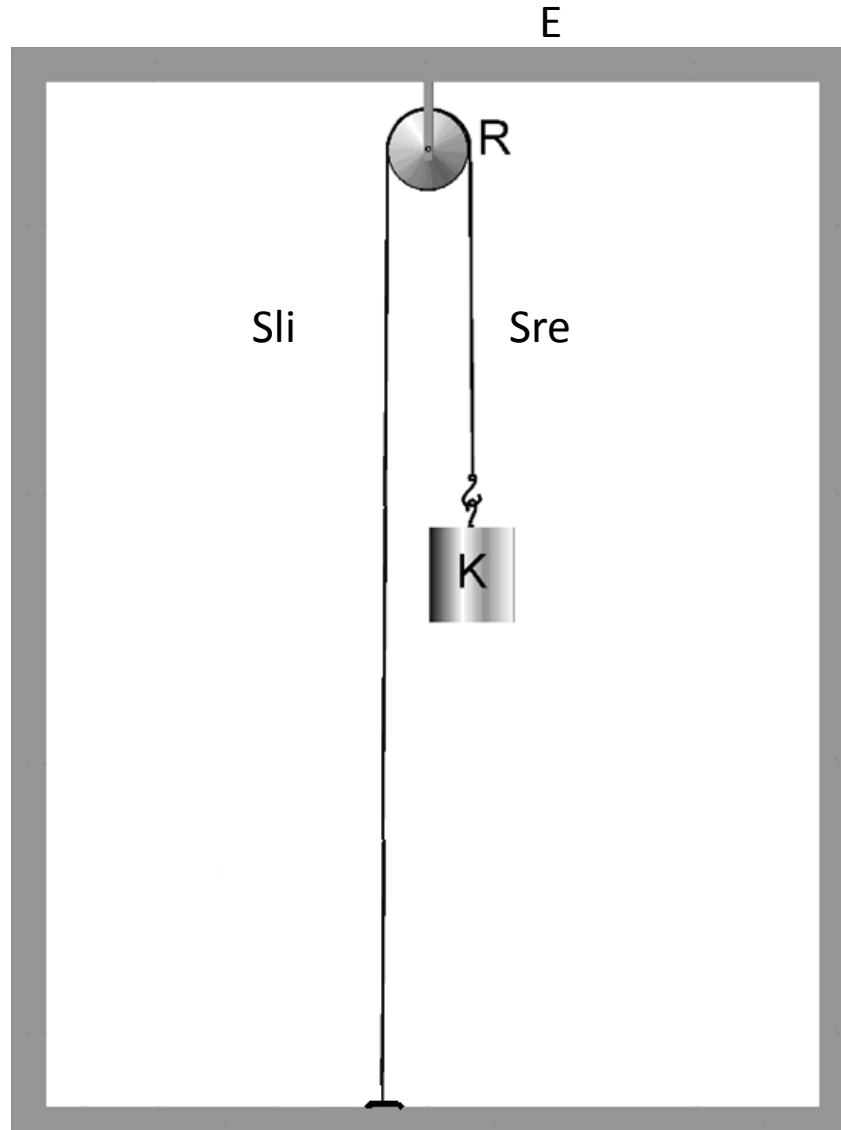
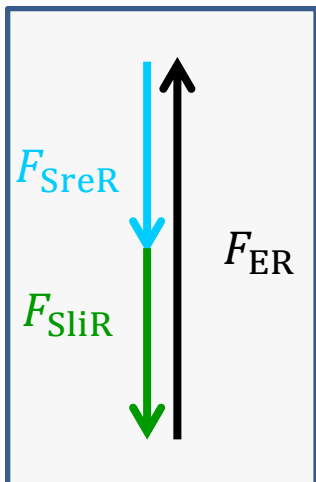


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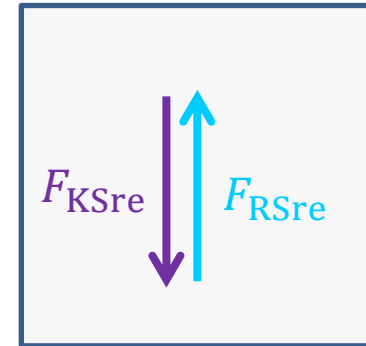
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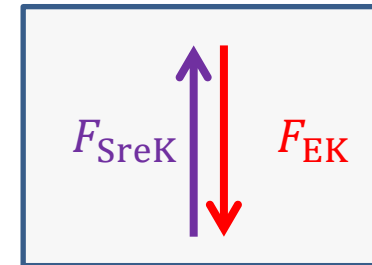
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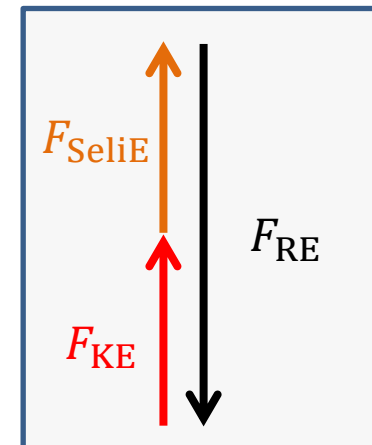
Seil re (Sre)



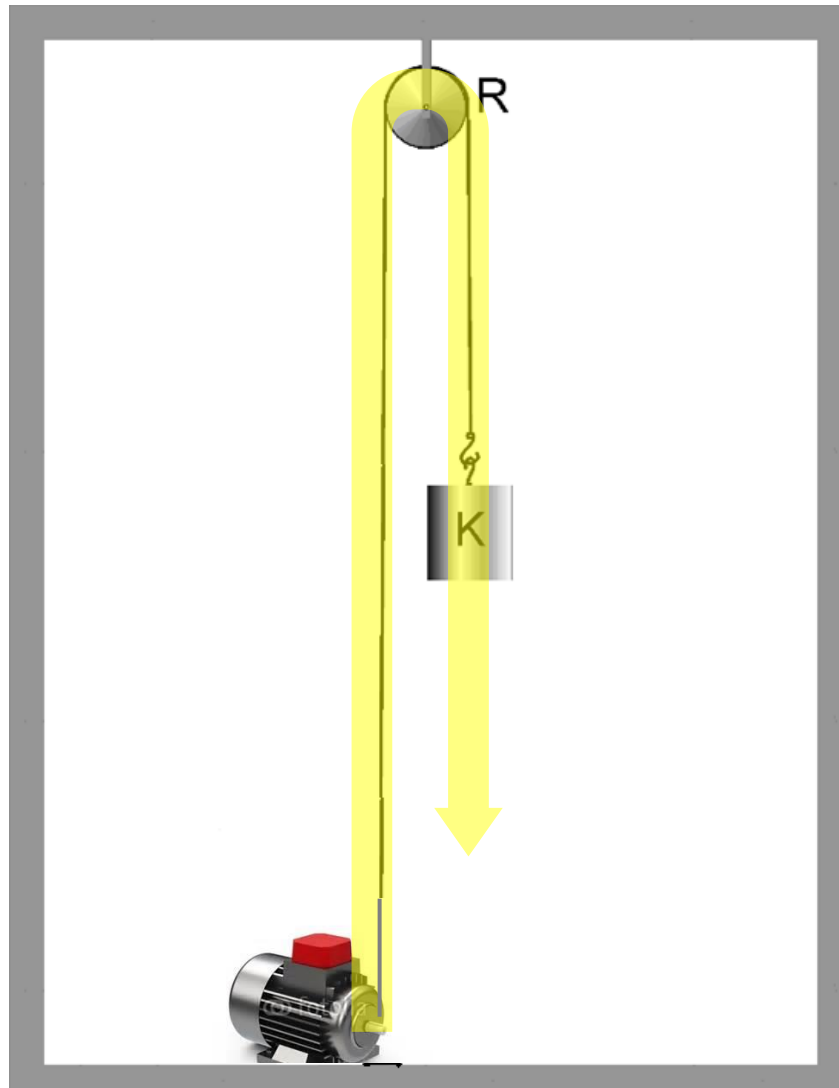
Körper (K)



Erde (E)



Umlenkrolle mit Kräften



Wer wird nun umgelenkt?

Das Seil!
Die Energie!

Aber nicht die Kraft!