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# Horizontal beam two diagonal wires

*x*

*y*

*z*



*m*, *L*

*T*2

*w* = *mg*

*l*1

*l*2

*O*

*A*

*B*

*C*

*D*

*E*

*T*1

*θ*1

*θ*2

*m*, *L*

*l*1

*l*2

*O*

*A*

*B*

*C*

*D*

*θ*1

*θ*2

# Diagonal beam frictionless wall rough floor

*x*

*y*

*z*



*m*, *L*

*μ* ≠ 0

*θ*

*μ* = 0

*w* = *mg*

*N*floor

*N*wall

*f*floor

*A*

*B*

*O*

*lw,A* = ½ *L* cos *θ*

*lN*floor*,A* = *L* cos *θ*

*lf*floor*,A* = *L* sin *θ*

*m*, *L*

*μ* ≠ 0

*μ* = 0

*A*

*B*

*O*

# Horizontal beam rough wall diagonal wire

*x*

*y*

*z*



*m*, *L*

*μ* ≠ 0

*θ*

*w* = *mg*

*TB*

*N*wall

*f*wall

*A*

*B*

*O*

½ *L*

*TB* sin *θ*

*TB* cos *θ*

*m*, *L*

*μ* ≠ 0

*θ*

*O*

½ *L*

*B*

*A*

# Notes

* 130% as for jekyll blog with MathJax
* Save as 0000x first then save as back to 0000, remove 0000x then, x = i

# Version

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