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# Horiz beam 2 diag 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

*x*

*y*

*z*



*m*, *L*

*w* = *mg*

*l*1

*l*2

*O*

*A*

*B*

*C*

*D*

*E*

*T*1 cos *θ*1

*θ*1

*θ*2

*T*2 cos *θ*2

*T*2 sin *θ*2

*T*1 sin *θ*1

*l*1

*l*2

*O*

*B*

*D*

*T*2 sin *θ*2

*T*1 sin *θ*1

*w*

*l*1

*l*2

*O*

*B*

*D*

*T*2 sin *θ*2

*w*

*l*1

*l*2

*O*

*B*

*D*

*T*1 sin *θ*1

+

+

+

+

+

+

–

–

–

# Diag beam fless wall rgh 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*

# Horiz beam rgh wall diag 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*

# SHM spring frictionless floor



*μ* = 0

*k*

*m*

*F* = –*k*(*x* – *x*0)

*x* = *x*0

*x* = *x*0

*x* > *x*0

*x* >> *x*0

*x* > *x*0

*x* = *x*0

*v* > 0

*v* = 0

*v* < 0

*v* < 0

*x* < *x*0

*x* << *x*0

*x* < *x*0

*x* = *x*0

*v* < 0

*v* = 0

*v* > 0

*v* > 0

*t*  = 0

*t*  = *T* / 8

*t*  = *T* / 4

*t*  = 3*T* / 8

*t*  = *T* / 2

*t*  = *T* / 2

*t*  = 5*T* / 8

*t*  = 3*T* / 4

*t*  = 7*T* / 8

*t*  = *T*

*x*

*t*

0

*T* / 4

*T* / 2

*x*

*t*

*T* / 2

3*T* / 4

*T*

*t*

*x*

*A*

–*A*

*F* < 0

*F* << 0

*F* < 0

*F* = 0

*F* = 0

*F* = 0

*F* > 0

*F* >> 0

*F* > 0

*F* = 0

*v* > 0

*v* < 0

*x*

*y*

*z*

# Two+ particles with velocity

*x*

*y*

*z*



*Dj, mj*

*Di, mi*



*Dk, mk*

# SD for NCC

Man

Woman

Child

Port-driven GDP

Energy Occupation

Water Occupation

Waste Discharge

Urban GDP

+

Environmental Quality

Resources Loss

Health Risk

+

+

–

+

+

–

–

–

Green Technology

–

–

–

+

Trade

+

Port Demand

Port Pressure

+

+

+

Port Cargo Troughput

+

Port Investment

Shoreline Occupation

+

–

+

Port Cargo Troughput Capacity

+

+

–

Port Revenue

Port Profit

+

+

+

+

Population

Death

Birth

–

+

In-Migration

+

+

+

–

Life Quality

–

–

Intrastate Industry

Interstate Industry

Interstate Infrastructure

+

+

Intrastate Infrastructure

+

+

–

–

Investment

+

+

+

+

Carrying Capacity

+

# Notes

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

# Version

20201110, 20201113, 20201117