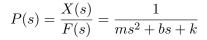
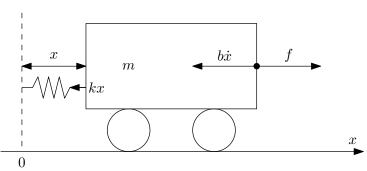
Introduction for Cart Plant Model

Motion Equation & Transfer Function

$$m\ddot{x} = f - b\dot{x} - kx$$





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PID control and step response

- P control
 - has a static error
- PD control
 - static error
 - · good transient
- Pl control
 - · no static error
 - · high oscillation
- PID control
 - · no static error
 - good transient??

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