

# Dynamics

(Meriam and Kraige, 7<sup>th</sup> Ed., 2013)

## Chapter 1. Introduction



Statics:  $\sum (F_x + F_y) = 0$ , distribution of reaction force  $F_r$  from the applied force  $F_a$

Dynamics:  $\sum (F_x + F_y) = ma$ ,  $x(t) = f(F_a)$  displacement as a function of time and applied force

Strength of Materials:  $\delta = f(P)$  deflection and applied force on deformable bodies

Vibration:  $x(t) = f(F_a)$  on particles and rigid bodies

# Meriam Dynamics Solutions Chapter 3

**Lei Shi**

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