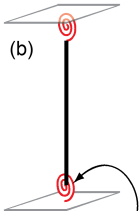


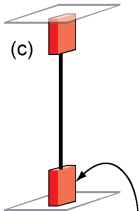
(a)

Plastic  
Hinge



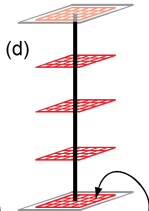
(b)

Nonlinear  
Spring Hinge



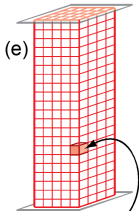
(c)

Finite Length  
Hinge Zone



(d)

Fiber  
Section



(e)

Finite  
Element