Announcements

- CBTF Quiz 7 next week
- 3D rigid body problems: PL HW10

☐ Upcoming deadlines:

- Friday (12/1)
 - WA #4
- Saturday (12/2)
 - ME HW25



Chapter 5 Part II – 3-D Rigid Body

Equilibrium of a rigid body



Now we add the z-axis to the coordinate system!

What are the possible movements for a 3-D body?

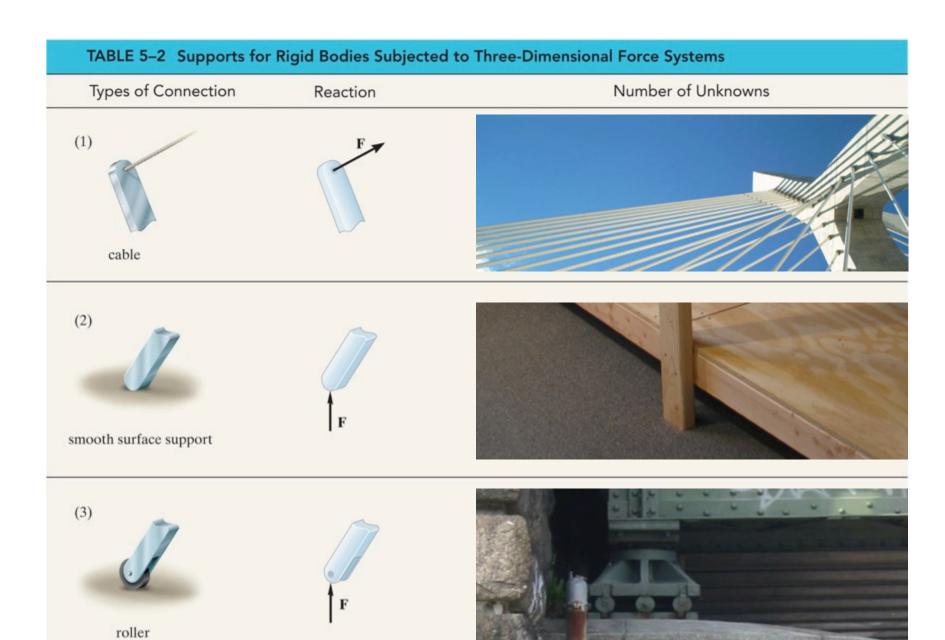


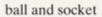
TABLE 5–2 Supports for Rigid Bodies Subjected to Three-Dimensional Force Systems

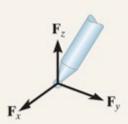
Types of Connection

Reaction

Number of Unknowns











single journal bearing

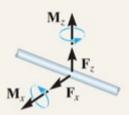




TABLE 5-2 Continued Number of Unknowns Types of Connection Reaction (6) single journal bearing with square shaft (7) single thrust bearing (8)

single smooth pin

