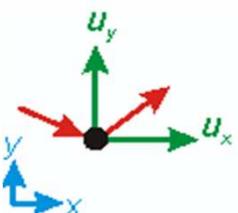
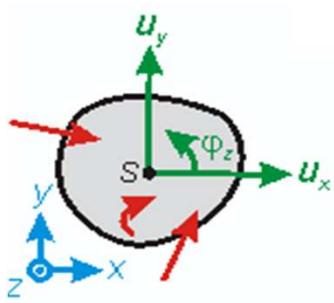
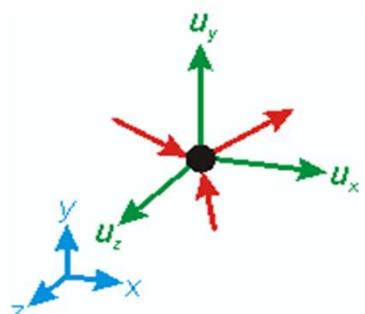
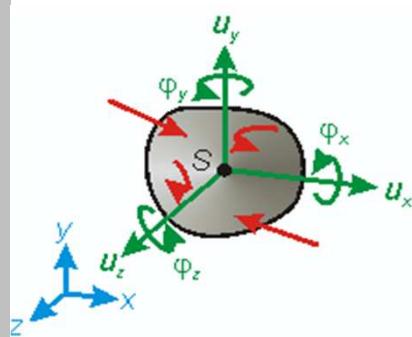


Lastsysteme, Freiheitsgrade und Gleichgewichtsbedingungen

Lastsystem		Bewegungen Translation Rotation	Freiheitsgrad f	Gleichgewichtsbed. Kräfte- Momenten-	
Ebenes zentrales Lastsystem		u_x u_y	2	$F_{Rx} = 0$ $F_{Ry} = 0$	
Ebenes allgemeines Lastsystem		u_x u_y φ_z	3	$F_{Rx} = 0$ $F_{Ry} = 0$ $M_{Rz} = 0$	
Räumliches zentrales Lastsystem		u_x u_y u_z	3	$F_{Rx} = 0$ $F_{Ry} = 0$ $F_{Rz} = 0$	
Räumliches allgemeines Lastsystem		u_x u_y u_z	φ_x φ_y φ_z	6	$F_{Rx} = 0 \quad M_{Rx} = 0$ $F_{Ry} = 0 \quad M_{Ry} = 0$ $F_{Rz} = 0 \quad M_{Rz} = 0$