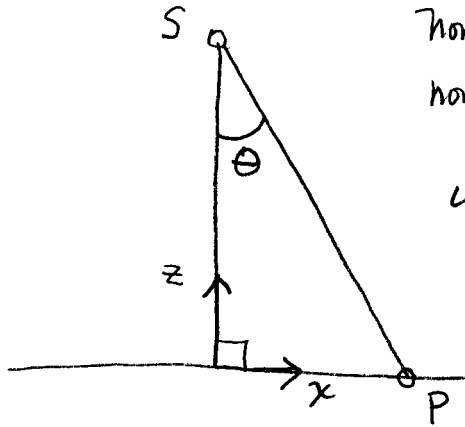


Satellite Photogrammetry Homework 1

14 Jan 2011, due Fri., 21 Jan

Simplified 2D error propagation from satellite imaging



Nominal position S: $(0, 500)$ km

Nominal image ray $\theta = 5^\circ$

uncertainties

$$\sigma_{S_x} = 1\text{m}$$

$$\sigma_{S_y} = 1\text{m}$$

$$\sigma_\theta = 3''$$

uncorrelated
covariances
are zero

compute P_x & σ_{P_x}

(note: P_z fixed at zero)