1 Math Examples

1.1 Predefined

araybb:

$$\left[\begin{array}{c|c} y & 4 \\ y & 4 \\ y & X \\ y & nn \end{array}\right] \textbf{[2]}$$

arrapp:

$$\left(\begin{array}{cc} y & 4 \\ y & 4 \\ y & X \\ y & nn \end{array}\right)$$

1.2 Matrices

Braces:

$$A_{m,n} = \left\{\begin{matrix} a_{1,1} & a_{1,2} & \cdots & a_{1,n} \\ a_{2,1} & a_{2,2} & \cdots & a_{2,n} \\ \vdots & \vdots & \ddots & \vdots \\ a_{m,1} & a_{m,2} & \cdots & a_{m,n} \end{matrix}\right\}$$

Brackets

$$A_{m,n} = \begin{bmatrix} a_{1,1} & a_{1,2} & \cdots & a_{1,n} \\ a_{2,1} & a_{2,2} & \cdots & a_{2,n} \\ \vdots & \vdots & \ddots & \vdots \\ a_{m,1} & a_{m,2} & \cdots & a_{m,n} \end{bmatrix}$$

Parenthesis

$$A_{m,n} = \begin{pmatrix} a_{1,1} & a_{1,2} & \cdots & a_{1,n} \\ a_{2,1} & a_{2,2} & \cdots & a_{2,n} \\ \vdots & \vdots & \ddots & \vdots \\ a_{m,1} & a_{m,2} & \cdots & a_{m,n} \end{pmatrix}$$

2 Figures

2.1 Self Defined Functions

Put it here:

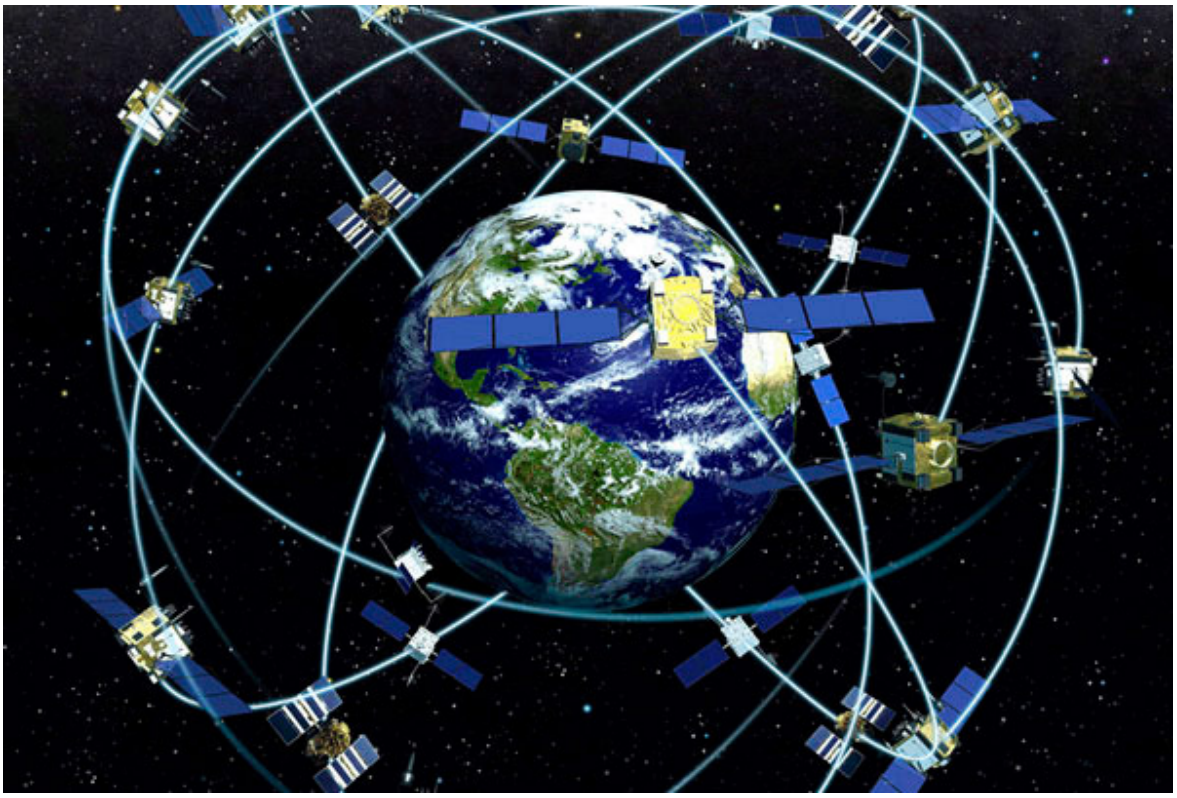

Figure 1: GPS Caption [1]

3 Lists

Simple Bullet List:

- **Batch Processor**
- **Conventional Kalman (Sequential) Filter**
- **Extended Kalman Filter**
- **State Noise Compensation**
- **Alternative Methods for Determining P, the Covariance Matrix**

4 Bibliography

References

[1] **A. Name. A thing.** `somesite.orgnet`**.**

[2] **B. Tapley, B. Schutz, and G. Born.** ***Statistical Orbit Determination.*** **Elsevier Acad. Press, 2004.**