

Assorted Notes

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1 Chapter 1: Error Propagation

Suppose an experiment has measured a set of quantities $\vec{x} = (x_1, x_2, \dots, x_n)$ and one wishes to calculate $f(\vec{x})$. How does the uncertainty on the measured parameters influence the uncertainty on the calculated value of f ?

Using the measurements, we can calculate:

$$V_{ij} = \langle x_i x_j \rangle - \langle x_i \rangle \langle x_j \rangle \quad (1)$$