#### Abstract

Show how the experiment fits into the process of interest. Discuss the results and conclusions. – One paragraph, only. Mention any recommended courses of action as a result of the experiment. The point of the abstract is to try to get the people to read the remainder of the report.

# I. Background/Theory

- A. Why you are doing the experiment?
- B. How the experiment fits into the project?

## **II. Experiment Design**

- A. Which experiment Design was used?
- B. Is this the first in a series? Where does it fit in a series?
- C. Show the responses, factors & levels, and list the runs (in run order to show randomization)

### III.Method

- A. Describe the method of conducting the experiment
- B. Were there any "bad" runs? Runs repeated due to error?
- C. What did you do right? Wrong?

## IV. Results/Data

- A. What were the values of the responses?
- B. Was anything unexpected?

# V. Analysis

- A. Which factors were significant? Which were not?
- B. Show graphs. Discuss statistical significance

C. Show the experiment model with coefficients.

### VI. Recommendations & Conclusions

- A. What factors or interactions have practical importance?
- B. Was anything learned from the experiment contrary to popular knowledge about the process?
- C. What to do next?
  - 1. More experiments
  - 2. Verification runs
  - 3. Observation of the process after a change
- D. Is there evidence of a "better" operating point?
- E. Should you change the process to the better point in the interim, even prior to other experiments?