530.635 - Mixing and Combustion - Su
First literature report: Mixing

Due date: 23 March

The purpose of the class reports is to review recent results from the literature that relate both to the material covered in class and to your own research interests. The first report should be related to the subject of mixing covered in class. After selecting a particular topic, you should pick two papers from the literature on that topic. These papers should be full papers, drawn from archival journals – not brief communications, conference papers etc. – and recent, preferably published in 2001 or later. You should consult with me about the topic of your report and your choice of papers prior to writing the report.

In the report, you are not expected to produce new results, but simply to describe the work presented in the papers. You should, however, do more than just summarize the papers. Instead, you should do the following:

- Explain the context of the work, for example why the work was performed, what preceding results motivated the work, what some of the implications of the results are, etc.
- Analyze the results in the context of our course lectures, where possible.
- Make any relevant connections with your own work or research interests.

The reports must be computer-generated, and will be limited to five double-spaced pages. Please provide copies of your selected papers with the reports.

Grading will be based on the following:

- 25% Understanding of the context of the selected papers
- 45% Understanding of the technical content of the papers
- 15% Links between the papers and your own interests
- 5% Organization of the report
- 10% Quality of presentation of the report.