Massachusetts Institute of Technology

3.155J/6.152J Micro/Nano Processing Technology

Fall Term 2005

Instructions for the IC Lab Report

Your lab report should follow the format of the *IEEE Electron Device Letters.* An example of a letter published in this journal is attached as a model.

Contents Your Letter should include the following sections:

Title
By-line (Author, affiliation, and submission date)
Abstract (50–200 words)
Introduction
Experiment
Results
Discussion
Conclusion
References

Although Letters do not usually have appendices, you should attach the following two appendices so the professors can better evaluate your work:

Appendix A: Data
Appendix B: Calculations

See the lecture slides "How to Write an IEEE Letter" for details about what should appear in each section and appendix.

Length Your Letter, excluding appendices, must be no more than three pages long when set in an IEEE template. LaTeX and Word templates are available from the IEEE website. Go to www.ieee.org and navigate through Publications--> Journals/Transactions-->Tools for Authors.

Limiting the Letter's length may be challenging. Use the following to focus your writing:

Purpose The purpose of your paper is to evaluate the effectiveness of your fabrication process. You will use MOS C-V data to achieve this purpose.

Audience You may assume that your audience is familiar with microelectronics.

There is no page limit on the appendices, but the Letter must be written in such a way that it stands alone without requiring reference to the appendices.

Grading You will submit your paper twice. The first submission will be assigned a grade based primarily on completeness. You will receive suggestions for improving both the writing and the technical quality, and you will be asked to revise. Your revision will receive two grades: a writing grade based on the Letter and a technical grade based on the Letter and Appendices. The technical grade will be based on your critical evaluation of the electrical and material property data, and your success in using these measurements to characterize the process.

Deadlines Your first submission is due via the assignments page on the MIT server class site at 5 PM six days after you do lab testing. For example, if you are in the Tuesday lab, your first submission is due at 5 PM Monday October 3. Post LaTeX files as PDFs. If you cannot include your appendices electronically, bring hardcopy of the appendices to the next class.

All revised Letters are due via the MIT server at 2:30 PM Wednesday October 26; revised appendices may be submitted in class the same day.