

EE/CS 6720 *only* (not required for EE/CS 5720 students)

Journal Article Report 1

Perhaps the most relevant technical journal for analog and mixed-signal VLSI designers is the *IEEE Journal of Solid-State Circuits (JSSC)*. This journal is published monthly, and includes articles written by academic and industrial researchers on the subject of analog and digital VLSI design.

In this assignment, you will select a recent *JSSC* article from a list provided in class, read this article, and write a short report.

Article Title: _____

Volume: _____

Page: _____

Month/Year: _____

Archives of *JSSC* may be found in the library (TK7871.85 .I23), or online (*IEEE Xplore*) via the library's website of electronic journals. Make *two* copies of the article, making sure to copy the entire article, including the literature citations at the end. (You will turn in one copy of the article with your report and keep the other for your reference.)

Read the article, and write a short report with the following sections:

1. **Affiliation.** Where do the authors work? Which university or company do they work for?
2. **The Problem.** In 2-3 paragraphs, answer the question: What problem is the article addressing? For example, what limitation did previous circuits have that this circuit solves? *For this part and the following parts, do not plagiarize from the paper! Use your own words to answer these question. Do not copy sentences from the paper!*
3. **The Approach.** In 2-4 paragraphs, what approach do the authors use to address the problem? Do they run a simulation, build a circuit, or develop a new analytical technique? Discuss the type of simulation, VLSI process, or models used.
4. **Results.** In 2-3 paragraphs, summarize the results of the paper. Do the authors measure quantitative figures of merit? What are they?
5. **Previous Work.** Have the authors of this paper done any related work in this area previously? Look through the list of citations at the end of the article, and list any citations that include any of this article's authors.

The report must be typed, not handwritten. **Staple a copy of the article to the back of your report**, and don't forget to write your name on the report.