

Functional Division Technology Essay
AOE 4065 (Space) Fall 2007
Due: 10/9/2007

Students will individually research a key technology related to their functional division. Please meet in your functional division to ensure that topics are not duplicated and that the topic is relevant. The purpose of this exercise is you to:

1. Become an “expert” on a key technology in your functional division
2. Provide a report on key technologies that may be used in the design projects
3. Gain more research and writing experience

1. Written report: The paper should be 5-10 pages of student composed material (text, figures, tables, drawings). The 5-10 pages do not include the cover sheet, table of contents, list of tables and figures, and a reference page.

The cover sheet should include the following centered on the page: Title of your paper, class name and number, your name, date. It may include a photo or drawing of the system.

You should include at least the following sections: cover sheet, table of contents, list of tables and figures, symbols and abbreviations, relevant chapter headings, and references. Follow the report format given earlier. You should consider including information on:

- History of development
- Key features
- Theory and key equations
- Principal(s) of operation
- Performance characteristics
- Scalability
- Reliability
- Constraints
- Estimated costs
- Other factors you deem important

The paper should be on 8.5" x 11" paper, double-spaced with margins of approximately 1 inch. Use 12 point font for the text, minimum of 8 point font on figures, etc..

References must be cited in the text of the paper and should be listed at the end of the paper in a standard accepted format.

Required references in addition to your textbook: At least three from scholarly sources - books and technical journals.