

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Department of Mechanical Engineering

2.701 PRINCIPLES OF NAVAL ARCHITECTURE
Fall 2014

PAPER: SURVEY OF NAVAL ARCHITECTURE LITERATURE

Date issued: October 6, 2014

Date Due: November 3, 2014 (identification of paper);

December 1, 2014 (written "review");

December 8, 2014 (presentations on 8th and 10th of December)

1. Paper Review/Written Summary

As one of the earliest 'sciences' as well as 'art', naval architecture is rich in history, tradition, and documentation. As discussed in class, a naval architect is considered a "jack-of-all-trades". As such, maintaining a razor-sharp knowledge in all disciplines is quite a task. To facilitate our quest for knowledge, each student will review a paper, article, summary, etc. **of their choice** related to one of the following topics:

Ship Geometry and Hydrostatics,
Initial Stability,
Longitudinal Stability and Trim,
General Stability at Large Angles,
Submarine Hydrostatics,
Damaged Stability,
Ship Resistance,
Ship Powering,
Shipbuilding Materials,
Ship Structures,
Ship Propellers and Propulsion Systems,
Ship Motions,
Ship Maneuverability and Control,
Etc.

Each student will identify and provide a copy of the paper they will review on/before November 3, 2014. Each student will prepare a "typed" 2-3 page summary of their review. The summaries will be copied and provided to all students for their reference library. Your written summary is due December 1, 2014.

2. In-class Presentation

In addition to your written summary, prepare a 5-10 minute oral presentation and present your summary to the class on December 8 or 10, 2014.

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