

## **2.996 Fundamentals of Advanced Energy Conversion Lecture Memo**

**Lecture number: 2**

**Date: February 9<sup>th</sup>, 2004**

- **The first law of thermodynamics: Work and heat interactions  
The stored energy**
- **First law for an open system**
- **The second law of thermodynamics: Entropy generation, efficiency**
- **The combined statement of the first and second laws: Availability**
- **Efficiency and second law efficiency**