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### Lecture Slides By Mehmet Kanoglu

4 11-1 INTRODUCTION Fluid flow over solid bodies frequently occurs in practice, and it is responsible for numerous physical phenomena such as •the drag force acting on automobiles, power lines, trees, and

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2 A 1 : 46.6 scale model of an Arleigh Burke class U.S. Navy fleet destroyer being tested in the 100-m long towing tank at the University of Iowa.

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2 Steady swimming of the jellyfish *Aurelia aurita*. Fluorescent dye placed directly upstream of the animal is drawn underneath the bell as the body relaxes and forms vortex rings below the animal as the

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3 THE REVERSED CARNOT CYCLE Both COPs increase as the difference between the two temperatures decreases, that is, as  $T_L$  rises or  $T_H$  falls. The reversed Carnot cycle is the most efficient refrigeration cycle operating between  $T_L$  and  $T_H$

## **CHAPTER 11 REFRIGERATION CYCLES - KSU**

Lecture slides by Mehmet Kanoglu, Fluid Mechanics: Fundamentals and Applications 3rd Edition Yunus A. Cengel, John M. Cimbala McGraw-Hill, 2014 3. Frank P. Incropera, Theodore I. Bergman, Adrienne S. Lavine, and David P Dewitt, fundamental of Heat and Mass Transfer, 7th edition 4.

### **Upload chap 5 convection heat transfer**

4 13-1 CLASSIFICATION OF OPEN-CHANNEL FLOWS Open-channel flow: Refers to the flow of liquids in channels open to the atmosphere or in partially filled conduits and is characterized by the presence of a liquid-gas interface called

### **Chapter 13 OPEN-CHANNEL FLOW - KOCW**

4 A system delivers the maximum possible work as it undergoes a reversible process from the specified initial state to the state of its environment, that is, the dead state. This represents the useful work potential of the system at the specified state and is called exergy. Exergy represents the upper limit on the amount of work a device can deliver without

### **CHAPTER 8 EXERGY - KSU**

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### **Thermodynamics Chapter 1 (Introduction)**

Energy balance when sign convention is used: (i.e., heat input and work output are positive; heat output and work input are negative). Various forms of the first-law relation for closed systems when sign convention is used. The first law cannot be proven mathematically, but no process in nature is known to have violated the first law, and this should be taken as sufficient proof.

### **Chapter 1 INTRODUCTION AND BASIC CONCEPTS**

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## **Docfoc.com-Chapter 10 VAPOR AND COMBINED POWER CYCLES ...**

Objectives. Evaluate the performance of gas power cycles for which the working fluid remains a gas throughout the entire cycle. Analyze vapor power cycles in which the working fluid is alternately vaporized and condensed.

### **Chapter 1 INTRODUCTION AND BASIC CONCEPTS**

$h = h(T)$  since water vapor is an ideal gas For water.  $h_g = 2500.9 \text{ kJ/kg}$  at  $0^\circ\text{C}$ .  $c_{p,avg} = 1.82 \text{ kJ/kg} \cdot ^\circ\text{C}$  at 10 to  $50^\circ\text{C}$  range

### **Chapter 1 INTRODUCTION AND BASIC CONCEPTS**

**SPECIFIC ENERGY** The specific energy reaches a minimum value  $E_s$ , min at some intermediate point, called the critical point, characterized by the critical depth  $y_c$  and critical velocity  $V_c$ . The minimum specific energy is also called the critical energy.

### **Specific Energy Hydraulic Jump - redac.eng.usm.my**

2 Objectives • Examine the performance of engineering devices in light of the second law of thermodynamics. • Define exergy, which is the maximum useful work that could be obtained from the system at a given state in a

### **Chapter 8 EXERGY: A MEASURE OF WORK POTENTIAL**

**THE IDEAL VAPOR-COMPRESSION REFRIGERATION CYCLE.** The . vapor-compression refrigeration cycle. is the ideal model for refrigeration systems. Unlike the reversed Carnot cycle, the refrigerant is vaporized completely before it is compressed and the turbine is replaced with a throttling device.

### **Chapter 1 INTRODUCTION AND BASIC CONCEPTS**

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