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# **THERMODYNAMICS COURSE**

## **INTRODUCTION**

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*Course Learning Objectives*

*To be able to use the First Law of Thermodynamics to estimate the potential for thermo mechanical energy conversion in aerospace power and propulsion systems*

*Measurable outcomes assessment method 1*

*To be able to state the First Law and to define heat work thermal efficiency and'*

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thermodynamics is the study of the  
interrelation of heat and work with chemical  
reactions or with physical changes of state  
within the confines of the laws of  
thermodynamics Chemical thermodynamics*

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*involves not only laboratory measurements of various thermodynamic properties but also the application of mathematical methods to the study of chemical questions and the spontaneity of*

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**heat released in the second chemical reaction"**Introductory Chemical Engineering Thermodynamics 2nd ed December 26th, 2019 - Introductory Chemical Engineering Thermodynamics 2nd ed J Richard Elliott Carl T Lira Search form Search About us Submitted by Lira on Sat 04 08 2017 08 48 This is the site of Introductory Chemical Engineering Thermodynamics 2nd edition by J Richard Elliott and Carl T Lira"Introduction

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**video tutorial provides a basic introduction into the first law of thermodynamics It shows the relationship between internal energy heat and work It discusses the difference between the system and surroundings and distinguishes an open system from a closed system and an isolated system In chemistry work is'**

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December 25th, 2019 - And that's actually the heart of the first law of thermodynamics which we touched on in the introduction to energy video. And the first law of thermodynamics tells us that energy is an important one. I'm going to write it down: energy cannot be created or destroyed. Cannot be created or destroyed.

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1st law of thermodynamics the  
incremental change  $dU$  in the internal  
energy of a closed'

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of energy and matter between systems  
during physical processes Chemical  
processes of interest include gas  
expansion phase transitions solution  
mixing and chemical reactions Physical  
properties of interest include temperature  
volume'**

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relationship to chemical processes enthalpy  
There are some processes that require the  
input of heat endothermic while others release  
heat exothermic but how do we know if any of*

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*these processes will proceed under certain conditions'*

***'Thermodynamics Wikipedia***

*November 15th, 2019 - Introduction A description of any thermodynamic system employs the four laws of thermodynamics that form an axiomatic basis The first law specifies that energy can be exchanged between physical systems as heat and work The second law defines the existence of a quantity*

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*called entropy that describes the direction thermodynamically that a*

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of the first and second laws of  
thermodynamics by seamlessly combining  
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