

# ADVANCED THERMODYNAMICS

## 1<sup>st</sup> Law of Thermodynamics

Even though energy can take different forms, but the total amount of the energy of the system and the energy of the surroundings is constant.

For a closed system:  $\Delta E_{\text{system}} + \Delta E_{\text{surroundings}} = 0$

We know from the first law:  $\Delta E_{\text{system}} = \Delta U$

Sign convention that we apply:  $\Delta U = Q - W$  when the heat is going into the system from the environment is positive and vice versa. the work made by the system is positive and the work made on the system is negative.

Remember that  $U$  is an extensive quantity. Dividing by the mass we get an intensive quantity. Also remember that  $U$  is a status function, it only depends on the initial state and the final state of the system.

We can also use the enthalpy  $H$ :  $\Delta H = Q - W$ . This expression is used for open system but it's also valid for closed systems.  $W$ , is the work made by mechanical parts (the so called shaft work). Enthalpy is a status function too.

## 2<sup>nd</sup> Law of Thermodynamics

We need to introduce a new quantity called fugacity. The definition of fugacity comes from this equation :

$$d\mu_i = RTd\ln f_i \quad \text{at const } T$$

In order to complete our definition we specify that :

$$\lim_{P \rightarrow 0} \frac{f_i}{P_i} = 1$$

When pressure goes to zero the fugacity goes to the same value of the pressure (partial pressure).

Fugacity is still related to the partial pressure by a fugacity coefficient  $\phi_i$ . (ideal case :  $\phi_i = 1$ ) (there are tables for  $\phi_i$ )

$$f_i = \phi_i P_i$$

So the fugacity coefficient is function of : reduced temperature  $T_c$  ( $T/T_c$ ), where the critical temperature can be calculated by summing all the critical temperature of each component times the molar fraction of each component. Remember that the temperature is the same for every component under equilibrium.

The equation that describe phase equilibria can be write in terms of fugacity :

$$f_{12} = f_{21}$$

The reason why is that we have a simple relation between fugacity and molar fraction for an ideal system.

$$dS = \frac{\delta Q}{T} \quad \text{REVERSIBLE}$$

This equation says that it's not possible for a process to entirely convert heat into work with no other effect on system and surroundings.

If we consider a heat exchange, some of this heat is given to the environment?

Another consequence: the heat can only flows spontaneously from higher temperature level to lower temperature level (Lord Kelvin).

### Phase equilibria

In the undergraduate thermodynamics course we use the concept of chemical potential  $\mu$  in order to give a general expression for phase equilibria.

If we have more than one component in L-V system, we assume that at some point this system reach the equilibrium state. What are the general condition for phase equilibria?

$$\mu_{12} = \mu_{21}$$

The two phase have the same chemical potential.

This equation is very elegant but not practical.

$$f_{12} = f_{12}^0 y_1$$

$f_{12}^0 y_1$  is the product of the fugacity of the same species under standard condition (when the component is pure, so there are no other component in our system) (same T and P of the mixture) and the molar fraction of the component in our mixture.

$$\text{For the liquid phase : } f_{12} = f_{12}^0 x_1$$

For an ideal gas when pressure goes to zero the fugacity is a partial pressure :

$$f_{12} = P_1 = P y_1$$

The fugacity in standard condition becomes the total pressure.

We can say that the fugacity is proportional to the molar fraction thanks to the assumption that there are no interaction between particles in our system. In liquid state this assumption doesn't work, so we have to assume that molecular interaction between different species are the same. (the interaction between A molecules with B molecules is the same of A-A or B-B).

So with this assumption we can extend this ideal approx. to the liquid state (through exponential Poynting factor derivation, we neglect the relation between fugacity and pressure of the liquid state).

# Advanced Thermodynamics Guide

**Terry C. Jones**

## **Advanced Thermodynamics Guide:**

*Advanced Thermodynamics Engineering* Kalyan Annamalai, Ishwar K. Puri, Milind A. Jog, 2010-12-12 Although there are a number of satisfactory advanced thermodynamics texts on the market virtually all of them take a rigorous theoretical and mathematical approach to the subject Engineering students need a more practical approach one that offers physical explanations along with the mathematical relation and equations so they can readily apply them to real world problems Advanced Thermodynamics Engineering fills that need The authors take a down to earth approach that lays a strong conceptual foundation and provides simple physical explanations for thermodynamic processes and the practical evaluation of thermodynamic systems They employ a phenomenological approach throughout the book and include more than 150 engineering examples The authors stress applications throughout the book illustrate availability concepts and emphasize the use of two conservation and two balance equations They include an abundance of figures exercises and tables plus a summary of important formulae and a summary of each chapter ideal for quick reference or review The authors have also developed spreadsheet software that covers many of the applications presented This text eliminates the need for students to wade through the abstract generalized concepts and mathematical relations that govern thermodynamics You can now offer them the perfect text for understanding the physics of thermodynamic concepts and apply that knowledge in the field

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web the meeting started unofficially at 3 15 p m with mr raquem b suarez speaking about the following agenda faculty club election officers grade level cleaning areas schedule of homeroom pta meeting schedule of gpta meeting re organization of coordinatorships

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web sample staff meeting agenda education vic gov au the sample staff meeting agenda template comes in word doc file format and can be edited according to needs the template has designated spaces for information like date

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web how do you make a meeting agenda for elementary school meeting this sample template is ready made and easy to customize in a word processor such as ms word bizzlibrary com

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web jul 11 2023 your time and your teachers time is valuable use faculty meetings to build relationships focus on professional development solve problems and make decisions at the start of the school year communicate that this is the purpose for faculty meetings going forward 2 develop a meeting agenda similarly every meeting needs an agenda

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web in addition managing a school or faculty requires juggling meetings and tasks related to very different departments and projects meetingking can help by automating all the administrative work around meetings agendas minutes etc and managing all meeting tasks to make sure things get done

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web a common example would be a meeting agenda a school council writing meeting agenda is just one of the many meeting agenda examples conducted by student officials and members of the faculty to identify solutions to issues that need to be addressed a school agenda allows participants to focus on important topics that need to be

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web mar 2 2018 2 curate agenda items that are relevant be a good steward of time and energy do so by curating the agenda items with an eye toward giving airtime to the essential topics harvard business review writer paul axtell suggests as a target

put 20 fewer items on your agenda and allow 20 more time for each item

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web oct 13 2022 take ideas for your next meeting by view a sample agenda for a teachers meetings this could help you build a cleared values agenda

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web collaborative school committee csc and school leadership team slt side by side comparative document 4 6 frequently asked questions 7 8 slt per the dps dcta agreement 9 article 8 professional standards 10 14 additional resources 15 sample minutes 16 sample ballot 17 sample agenda meeting topics 18 sample norms 19

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web it is imperative to make faculty meetings especially the first meeting of the school year a worthwhile and professional endeavor for your teachers and support staff and for you to be organized and prepared for every meeting do s tell your faculty about yourself your education family hobbies etc

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web sep 21 2016 lesson plans are due every friday pr 1 pl 3 board policy handout associate teacher folders were due on friday august 19 2016 please submit them to ms morales in the main office by wednesday august 24 2016 content areas for distribution packets science social studies due by wednesday august 31 2016

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web here are 8 steps that will help you have effective school meetings from start to finish create teams set team norms develop a meeting agenda take notes develop a goal create and assign tasks to accomplish your goal track tasks and follow up acknowledge accomplishments

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web 3 class meeting activity ideas below are some class meeting activities ideas you can include in your elementary classroom 1 interactive read alouds with an sel focus one of my favorite class meeting activities is to use read aloud a picture book that addresses social emotional skills

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web georgia department of education 2 april 1 2019 georgia department of education 1 april 1 2019 leadership team meeting agenda april 1 2019 o rganize productive effective leadership team meetings that build collective leadership capacity t o continuously improve outcomes for students this photo

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web how to use creating climate with teachers requires consistent opportunities for community building collaboration and

reflection this document provides school leaders with sample objectives key questions and facilitation considerations to create improvement oriented agendas over the course of the school year

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web sep 29 2021 take time to showcase best practices this is our favorite part of meetings always carve out time for faculty members to share their successes with lesson design instruction and assessment ideas and techniques this ensures that regardless of the agenda there is always a pop of professional learning

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web in this blog post we will guide you through the steps to create a meeting agenda for a school staff meeting step 1 determine the purpose of the meeting the first step in creating a meeting agenda is to determine the purpose of the meeting

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web school staff members have a lot on their plates as it is an agenda can be set at the team level school level or even district level depending on the purpose of the meeting sticking to the agenda items and their timing will help staff to feel more excited about meetings

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web having a plan and a purpose establishing a plan and an agenda for a meeting is essential to its success principals share favorite activities for staff meetings laura guggino principal at rhame avenue elementary school in east rockaway new york has a favorite staff meeting activity