

THERMODYNAMICS OF IDEAL GASES

$$W = \frac{nR(T_2 - T_1)}{k - 1}$$

$$Q = nC_v \Delta T$$

$$\Delta U = Q + W$$

$$k = \frac{C_p}{C_v}$$

$$R = C_p - C_v$$

$$\Delta H = nC_p \Delta T$$

$$P_1 V_1^k = P_2 V_2^k$$

$$\frac{T_2}{T_1} = \left(\frac{P_2}{P_1} \right)^{\frac{k-1}{k}}$$

$$\frac{T_2}{T_1} = \left(\frac{V_1}{V_2} \right)^{k-1}$$



ENGR. ELY SALUT

Ideal Gases Section Review

Bruce Fegley, Rose Osborne

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author names.

Ideal Gases Section Review:

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to aid students and provide helpful self learning tools The topics are arranged throughout the textbook in a traditional approach to the subject with the primary audience being undergraduate students and advanced high school students of chemistry

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whether they are good insulators conductors semiconductors or even superconductors At a deeper level it explores how the quantum physics of nuclei and elementary particles determines the stability of matter and hence the range of substances that came into existence through the big bang and the evolution of stars

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E. Ludena,2013-03-09 The impact of computers on all realms of Chemistry has been one of the most important factors in the development of this science during the last years In recognition of this fact in 1971 the First International Conference on Computers in Chemical Research and Education was held at DeKalb Illinois USA A second Conference took place in Ljubljana Yugoslavia in 1973 and this third Conference in Caracas Venezuela in 1976 The aim of these conferences was to provide a high level forum for the leading researchers to exchange information at the frontiers of present day computer applications to the different fields of Chemistry The present Third International Conference on Computers in Chemical Research Education and Technology whose proceedings are published in the present volume was conceived by means of a series of invited lectures as a survey of the present state of the art in some of the most relevant areas of computer applications in Chemistry

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