

change in entropy dS can be split into two parts

$$dS = d_e S + d_i S, \quad (5.2a)$$

where $d_e S$ is the flow of entropy into the system from the surroundings and $d_i S$ is the production of entropy by irreversible processes within the system.

2. The entropy production $d_i S$ is never negative. It is zero if the system undergoes only reversible processes and positive if it undergoes irreversible processes, that is,

$$\begin{array}{l} d_i S = 0 \quad (\text{reversible processes}) \\ d_i S > 0 \quad (\text{irreversible processes}) \end{array}, \quad (5.2b)$$

3. For a *closed* system undergoing any process whatever (reversible or irreversible), $d_e S$ is given by

$$d_e S = \frac{dQ}{T} \quad (\text{closed system, any process}), \quad (5.2c)$$

where dQ is the heat received by the system at absolute temperature T .

The temperature T is here the absolute temperature of the system itself, which is assumed to be definable in the nonequilibrium situation.

The irreversible statement of the second law is more powerful than the classical statement in that it applies to systems while they are actually in a nonequilibrium state and not merely to equilibrium end states. [This is implied by the differential form of the irreversible equations; strictly speaking, equation (5.1b) of the classical statement cannot logically be written in general in differential form.] That the classical statement is included within the irreversible statement can be seen as follows. For a *closed* system ($d_e S = dQ/T$) undergoing a *reversible* process ($d_i S = 0$), equation (5.2a) reduces to $dS = (dQ/T)_{\text{rev}}$. This can be written after integration as

$$S_B - S_A = \int_A^B \left(\frac{dQ}{T} \right)_{\text{rev}}, \quad (5.3a)$$

which is identical to equation (5.1a) of the classical statement. Part 1 of the classical statement is thus included within the irreversible statement. For a *closed* system undergoing an *irreversible* process, equation (5.2a) becomes, after integration,

$$S_B - S_A = \int_A^B \left(\frac{dQ}{T} \right)_{\text{irrev}} + \int_A^B d_i S. \quad (5.3b)$$

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each process treated as though it were entirely unrelated to the others Why isn't there we asked a generalized approach based on fundamental equations which act as progenitors for the specific equations of all the simplified flow processes and which provide insight to more general flow processes As our solution to the above dilemma we present a complete treatment of one dimensional gas dynamics stressing a fundamental approach A unified description of this subject is accomplished by means of a single numerical table applicable to the particular gas under study Separate treatments for the various flow processes are thus combined into one all encompassing analysis These tables are intended for the large group of practicing engineers of which we are members who daily must solve routine problems in gas dynamics Aero dynamic chemical and mechanical engineers as well as students of thermo dynamics and gas dynamics should find these tables useful The book is divided into five parts In Chapter 1 we present a generalized compressible flow function r which is shown to have direct application in the treatment of many simplified one dimensional flow processes

Introduction to Reactive Gas Dynamics Raymond Brun, 2009-02-26 Many actual technological problems require the knowledge of the physical and chemical phenomena and processes taking place in high energy gas flows This book presents an introductory analysis theoretical and experimental of these media highlighting both their fundamental characteristics and applied aspects

Studies in Physical Gas Dynamics, 1968 **Physical Gas Dynamics** Academy of Sciences of The U.S.S.R. Institute of Power Engineering, 1961 *Elements of Gas Dynamics* H. W. Liepmann, A. Roshko, 2013-04-09 The increasing importance of concepts from compressible fluid flow theory for aeronautical applications makes the republication of this first rate text particularly timely Intended mainly for aeronautics students the text will also be helpful to practicing engineers and scientists who work on problems involving the aerodynamics of compressible fluids Covering the general principles of gas dynamics to provide a working understanding of the essentials of gas flow the contents of this book form the foundation for a study of the specialized literature and should give the necessary background for reading original papers on the subject Topics include introductory concepts from thermodynamics including entropy reciprocity relations equilibrium conditions the law of mass action and condensation one dimensional gas dynamics one dimensional wave motion waves in supersonic flow flow in ducts and wind tunnels methods of measurement the equations of frictionless flow small perturbation theory transonic flow effects of viscosity and conductivity and much more The text includes numerous detailed figures and several useful tables while concluding exercises demonstrate the application of the material in the text and outline additional subjects Advanced undergraduate or graduate physics and engineering students with at least a working knowledge of calculus and basic physics will profit immensely from studying this outstanding volume

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