- 5. No heat transfer from the rocket engine.
- 6. Flow is isentropic except across the shock.
- Uniform chamber conditions at the nozzle entrance; flow properties, namely, pressure, temperature, and density remain constant.
- Velocity at the nozzle entrance is negligibly small as compared to its exit.
- Gas composition across the nozzle remains constant. Frozen flow in the nozzle.
- 10. Gas leaves nozzle exit along axial direction only.

These simplifying assumptions are quite useful in deriving simplified performance parameters that are helpful in characterizing the chemical rocket engine. Subsequently, we will discuss the correction factors by which this idealized model can be improved further.

3.3 THRUST EQUATION OF ROCKET ENGINES

An expression for the thrust developed by a rocket engine under static condition can be obtained by applying the momentum equation. For this, let us consider a control volume (CV), as shown in Figure 3.1. The propulsive thrust "F" acts in a direction opposite to V_e . The reaction to the thrust "F" on the CV is opposite to it. The momentum equation for such CV is given by [4]

$$\frac{d}{dt} \int_{\mathcal{S}} \rho V_x \, dV + \int_{\mathcal{S}} V_x \, (\rho V_x \cdot n) dA = \sum F_x \tag{3.1}$$

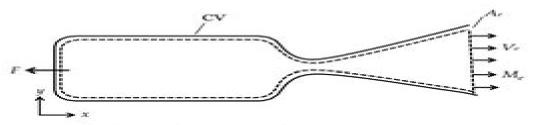


FIGURE 3.1 Control volume of rocket engine.

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Rocket Propulsion Elements George P. Sutton, Oscar Biblarz, 2010-02-02 The definitive text on rocket propulsion now revised to reflect advancements in the field For sixty years Sutton's Rocket Propulsion Elements has been regarded as the single most authoritative sourcebook on rocket propulsion technology As with the previous edition coauthored with Oscar Biblarz the Eighth Edition of Rocket Propulsion Elements offers a thorough introduction to basic principles of rocket propulsion for guided missiles space flight or satellite flight It describes the physical mechanisms and designs for various types of rockets and provides an understanding of how rocket propulsion is applied to flying vehicles Updated and strengthened throughout the Eighth Edition explores The fundamentals of rocket propulsion its essential technologies and its key design rationale The various types of rocket propulsion systems physical phenomena and essential relationships The latest advances in the field such as changes in materials systems design propellants applications and manufacturing technologies with a separate new chapter devoted to turbopumps Liquid propellant rocket engines and solid propellant rocket motors the two most prevalent of the rocket propulsion systems with in depth consideration of advances in hybrid rockets and electrical space propulsion Comprehensive and coherently organized this seminal text guides readers evenhandedly through the complex factors that shape rocket propulsion with both theory and practical design considerations Professional engineers in the aerospace and defense industries as well as students in mechanical and aerospace engineering will find this updated classic indispensable for its scope of coverage and utility **Computational Intelligence in Decision and Control** Da Ruan, Javier Montero, 2008 FLINS originally an acronym for Fuzzy Logic and Intelligent Technologies in Nuclear Science is now extended to Computational Intelligence for applied research The contributions to the eighth edition in the series of FLINS conferences cover state of the art research development and technology for computational intelligence systems in general and for intelligent decision and control in particular **List of Training** Manuals and Correspondence Courses United States. Bureau of Naval Personnel, 1969 Catalogue for the Academic Year Naval Postgraduate School (U.S.),1970 Scientific and Technical Aerospace Reports, 1995 Journal of the **Institution of Mechanical Engineers (including the Proceedings)** Institution of Mechanical Engineers (Great Bibliography of Lewis Research Center Technical Publications Announced in 1977 Lewis Research Britain),1949 Center, 1978 This compilation of abstracts describes and indexes over 780 technical reports resulting from the scientific and engineering work performed and managed by the Lewis Research Center in 1977 All the publications were announced in the 1977 issues of STAR Scientific and Technical Aerospace Reports and or IAA International Aerospace Abstracts Documents cited include research reports journal articles conference presentations patents and patent applications and theses **Industrial Laboratories**, 1957 Computer Program Abstracts ,1970 <u>Journal</u> Institution of Mechanical Engineers

Rocket Propulsion Elements George P. Sutton, Oscar Biblarz, 2016-12-27 ROCKET PROPULSION (Great Britain), 1947

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