

1. Record Nr.	UNINA9910781408303321
Autore	Emanuel George
Titolo	Gasdynamics [[electronic resource]] : theory and applications / / George Emanuel
Pubbl/distr/stampa	New York, N.Y., : American Institute of Aeronautics and Astronautics, c1986
ISBN	1-60086-187-3 1-60086-059-1
Descrizione fisica	1 online resource (462 p.)
Collana	AIAA education series
Disciplina	620.1/074
Soggetti	Gas dynamics Fluid dynamics Aerodynamics, Supersonic
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	<p>""Cover ""; ""Title ""; ""Copyright ""; ""Foreword ""; ""Table of Contents "";</p> <p>""Introduction ""; ""Thermodynamics ""; ""One-Dimensional Conservation Equations ""; ""Steady Streamtube Flow ""; ""Noraml and Oblique Shock Waves ""; ""Prandtl-Meyer Flow and Shock-Expansion Theory ""; ""Nozzle and Diffuser Flow ""; ""Ducts with Area Change, Heat Transfer, and Friction ""; ""Unsteady, One-Dimensional Flow "";</p> <p>""Applications of Unsteady, One-Dimensional Flow ""; ""Governing Equations ""; ""Shock Waves ""; ""Transformation of the Conservation Equations ""; ""Definitions and Theorems ""</p> <p>""Exact Solutions of Steady Homentropic Flow of a Perfect Gas</p> <p>""Theory of Characteristics ""; ""Minimum-Length Nozzles "";</p> <p>""Aerodynamic Window ""; ""Flows with Shock Waves ""; ""Waverider Aerodynamics ""; ""SI Units and Nomenclature ""; ""Thermodynamic Summary ""; ""Streamtube Flow Equations ""; ""Normal and Oblique Shock Summary ""; ""Shock Wave Angle (beta) vs Flow Deflection Angle (theta) ""; ""Prandtl-Meyer Flow Summary ""; ""Shock-Expansion Summary ""; ""Nozzle Flow Summary ""; ""Summary of Equations for Ducts with Area Change, Heat Transfer, and Friction ""</p> <p>""Rayleigh Flow Summary """"Fanno Flow Summary ""; ""Unsteady, Normal Shock Summary ""; ""Reflected Shock Wave Summary "";</p>

