

1. Record Nr.	UNINA9910457210903321
Titolo	Combustion diagnostics by nonintrusive methods [[electronic resource] /] / edited by T.D. McCay, J.A. Roux
Pubbl/distr/stampa	New York, : American Institute of Aeronautics and Astronautics, 1984
ISBN	1-60086-565-8 1-60086-346-9
Descrizione fisica	1 online resource (355 p.)
Collana	Progress in astronautics and aeronautics ; ; v. 92
Altri autori (Persone)	McCayT. D RouxJ. A
Disciplina	629.1 s 621.402/3
Soggetti	Combustion Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Technical papers selected from the AIAA 21st Aerospace Sciences Meeting, January 1983, and the AIAA 18th Thermophysics Conference, June 1983, and subsequently revised for this volume."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	""Cover""; ""Title""; ""Copyright""; ""Table of Contents""; ""Preface""; ""Chapter I. CARS""; ""CARS Diagnostics of High Pressure and Temperature Gases""; ""CARS Thermometry and N2 Number-Density Measurments in a Turbulent Diffusion Flame""; ""Comparison of CARS Combustion Temperatures with Standard Techniques""; ""Electronically Resonant CARS Detection of OH""; ""Simultaneous CARS and Luminosity Measurements in a Bluff-Body Combustion""; ""Chapter II. Laser-Induced Fluorescence.""; ""Nonintrusive Pressure Measurements with Laser-Induced Iodine Fluorescence"" ""Laser-Induced Schlieren Effect in Sodium-Nitrogen Mixtures""""Use of Laser-Induced Fluorescence for Fundamental Gas-Phase Kinetic Measurements""; ""Chapter III. Particle Diagnostics""; ""Nonintrusive Laser-Based Particle Diagnostics - Invited Review""; ""Interpretation of Optical Measurements of Soot in Flames""; ""In Situ Measurement of the Complex Refractive Index of Combustion Generated Particulates""; ""Chapter IV. Combustion Diagnostics Applications""; ""Temperature and Concentration Measurements in an Internal Combustion Engine Using Laser Raman Spectroscopy""

""Rayleigh Thermometry with Low-Power Laser Sources""""Laser
Tomography for Simultaneous Concentration and Temperature
Measurement in Reacting Flows""; ""Flow Measurement in a Model
Combustion Chamber""; ""Author Index""
