

1. Record Nr.	UNISALENTO991002122329707536
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Titolo	Fundamentals of premixed turbulent combustion / Andrei Lipatnikov
Pubbl/distr/stampa	Boca Raton, FL : Taylor & Francis, 2013
ISBN	9781466510241 (hardback)
Descrizione fisica	xxi, 525 p. : ill. ; 24 cm
Disciplina	621.43
Soggetti	Gas-turbines - Combustion SCIENCE / Energy SCIENCE / Mechanics / Dynamics / Thermodynamics TECHNOLOGY & ENGINEERING / Mechanical
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index
Sommario/riassunto	"Lean burning of premixed gases is considered to be a promising combustion technology for future clean and highly efficient gas turbine engines. This book highlights the phenomenology of premixed turbulent flames. The text provides experimental data on the general appearance of premixed turbulent flames, physical mechanisms that could affect flame behavior, and physical and numerical models aimed at predicting the key features of premixed turbulent combustion. The author aims to provide a simple introduction to the field for advanced graduate and postgraduate students. Topics covered include Laminar premixed flames, homogenous isotropic turbulence, and incompressible turbulent flow"--