

1. Record Nr.	UNINA9910790881803321
Autore	Lee T.-W (Tae-Woo)
Titolo	Aerospace propulsion // T.-W. Lee
Pubbl/distr/stampa	Chichester, England : , : Wiley, , 2014 ©2014
ISBN	1-118-53487-5 1-118-53469-7 1-118-53465-4
Descrizione fisica	1 online resource (318 p.)
Collana	Aerospace Series
Disciplina	629.1/1
Soggetti	Airplanes - Jet propulsion Rocketry
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 at the end of each chapters and index.
Nota di contenuto	Principle of thrust -- Basic analyses of gas-turbine engines -- Gas-turbine components : inlets and nozzles -- Compressors and turbines -- Combustors and afterburners -- Gas-turbine analysis with efficiency terms -- Basics of rocket propulsion -- Rocket propulsion and mission analysis -- Chemical rockets -- Non-chemical rockets.
Sommario/riassunto	Aerospace propulsion devices embody some of the most advanced technologies, ranging from materials, fluid control, and heat transfer and combustion. In order to maximize the performance, sophisticated testing and computer simulation tools are developed and used. Aerospace Propulsion comprehensively covers the mechanics and thermal-fluid aspects of aerospace propulsion, starting from the fundamental principles, and covering applications to gas-turbine and space propulsion (rocket) systems. It presents modern analytical methods using MATLAB and other advanced software and includ