1.	Record Nr.	UNINA9911006615803321
	Autore	Leizerovich A. Sh (Aleksandr Shaulovich)
	Titolo	Steam turbines for modern fossil-fuel power plants / / Alexander S. Leyzerovich
	Pubbl/distr/stampa	Gistrup : , : River Publishers, , 2021
	ISBN	1-00-315138-8
		1-003-15138-8
		87-7022-267-3
		1-60119-810-8
	Edizione	[1st.]
	Descrizione fisica	1 online resource (350 pages)
	Disciplina	621.1/65
	Soggetti	Engineering - General and Others
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Steam Turbines in the Modern World. Rise of Steam Turbine Output & Efficiency with Steam Parameters. Configuration of Modern Power Steam Turbines. Design of Steam Path, Blading, Gland Seals, and Valves. Last Stage Blades & Exhaust Hoods of LP Cylinders. Thermal Expansion, Bearings & Lubrication. Operating Conditions & Start-up Systems. Experimental Researches of Turbine Transients. Start-up Technologies & Applications. Start-up Instructions for Steam Turbines. Scheduled & Unscheduled Load Changes. Cycling Operation & Its Influence on Turbine Performances. Automated Data Acquisition & Control. Diagnostic Monitoring of Turbine Heat Rate & Flow Capacity Performances. Diagnostic Monitoring of Turbine Temperature & Thermal Stress States. Post-Operative Analysis of Turbine Operation. Assessment & Extension of Steam Turbine Lifetime. Steam Turbine Upgrade. Appendices, Index.
	Sommario/riassunto	Presenting the newest approaches to the design and operation of steam turbines, this book also explores modern techniques for refurbishment of aging units. It covers recent engineering breakthroughs and new approaches to transient operating conditions, as well as improved information support for operational personnel. An authoritative guide for power plant engineers, operators, owners and designers on all of

these crucial developments, this book fully describes and evaluates the most important new design and operational improvement opportunities for the full spectrum of today's steam turbines - from the newest and most advanced to the more common existing systems.