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Gas Turbine Handbook Tony Giampaolo,2020-11-26 Newly revised, this new fifth edition includes a chapter on waste heat recovery and discusses this technology in detail including a the advantages and barriers to waste heat recovery, environmental restraints, thermodynamics of heat recovery, fluid properties, boiler, condensers, steam turbines, off design behavior and exhaust catalyst. This book shows how microturbine designs rely heavily on the centrifugal compressor and are, in many aspects, similar to the early flight engines and will illustrate how the approach of the microturbine designer is to minimize cost.

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Gas Turbine Handbook Tony Giampaolo,2014

Gas Turbine Handbook, Fourth edition Tony Giampaolo,2009-02-11 This fourth edition of a bestseller provides a fundamental understanding of the operation and proper application of all types of gas turbines. The book explores the full spectrum of gas turbine hardware, typical application scenarios, and operating parameters, controls, inlet treatments, inspection, troubleshooting, and more. It includes a new chapter on gas turbine acoustics and noise control and an expanded section on the use of inlet cooling for power augmentation and NOx control. The author emphasizes strategies that help readers avoid problems before they occur and includes tips on how to diagnose problems in their early stages and analyze

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