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## **The Design of High-Efficiency Turbomachinery and Gas ...**

3.1 Stationary Gas Turbines 3.1.1 General 1 Gas turbines, also called "combustion turbines", are used in a broad scope of applications including electric power generation, cogeneration, natural gas

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transmission, and various process applications. Gas turbines are available with power outputs ranging in size from 300 horsepower (hp) to

## **3.1 Stationary Gas Turbines**

combustion chamber. Both of these ideas, with minor changes, are the basis for most modern gas turbines in use today. Marine Gas Turbine Engine Using a GTE to propel a ship goes back to 1937 when a Pescara free piston gas engine was used experimentally with a GTE. The free piston engine, or gasifier (fig. 1-5), is a form of diesel engine.

## **Fundamentals of Gas Turbine Engines**

Aircraft Engines and Gas Turbines, Second Edition by Jack L. Kerrebrock, The MIT Press, 1992, ISBN 0-262-11162-4. "Forensic Investigation of a Gas Turbine Event" by John Molloy, M&M Engineering "Gas Turbine Performance, 2nd Edition" by Philip Walsh and Paul Fletcher, Wiley-Blackwell, 2004 ISBN 978-0-632-06434-2

## **Gas turbine - Wikipedia**

Purchase Gas Turbines - 2nd Edition. Print Book & E-Book. ISBN 9780124104617, 9780124104853

## **Gas Turbines - 2nd Edition - Elsevier**

II.A.3 Brayton (or Joule) Cycle. Essentially all gas turbines are based on the Brayton cycle, which is sometimes referred to as a Joule cycle. In this cycle, fuel and air are pressurized, burned, pass through a gas turbine, and exhausted. The exhaust gases are generally used to preheat the fuel or air.

## **Gas Turbine - an overview | ScienceDirect Topics**

Claire Soares, in Gas Turbines (Second Edition), 2015 Dry Low NO<sub>x</sub> Steam-Cooled Combustor The

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combustor design is based on the successful can-annular dry low NO<sub>x</sub> combustor developed for the "F" series.

### **Combustor - an overview | ScienceDirect Topics**

The book has three sections: the first section reviews major issues with gas turbine combustion, including design approaches and constraints, within the context of emissions. The second section addresses fundamental issues associated with pollutant formation, modeling, and prediction.

### **Gas Turbine Emissions (Cambridge Aerospace Series) 1st Edition**

From the study on the instability onset of a laboratory combustor undergoing transient operation [1], the dramatic increase in combustion-related pressure oscillations by almost an order of magnitude, in less than half a second, highlights the degree to which combustion instability can be disruptive and potentially damaging in gas turbine systems.

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