

**ADVANCED GAS TURBINE CYCLES: A BRIEF REVIEW  
OF POWER GENERATION THERMODYNAMICS**

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## **Combined Cycle Plant for Power Generation- Introduction**

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This figure highlights, that although jet impingement cooling is highly effective, the design of the impingement system requires careful consideration of several influencing parameters, such as the standoff distance from the target surface, the axial and lateral pitch of the impingement holes and the amount of crossflow from upstream jets. Under rotating conditions, Coriolis and buoyancy effects can significantly alter the temperature and velocity profiles within the passages.

Mwindicatesthemoisturecontentoftheusedfuel.Inpresentingthiswidesurvey

In presenting this wide survey of gas turbine cycles for power generation the author calls on both his academic experience at Cambridge and Liverpool Universities, the Gas Turbine Laboratory at MIT and Penn State University and his industrial work primarily with Rolls Royce, plc. It is assumed that methane is the main used fuel in the power plant and it can be presented in various forms such as 2122 to perform exergy analysis in this investigation, first the amount of exergy at each state is determined and then by drawing a control volume over each component, exergy variation and the resulted exergy destruction are determined.

Inaddition,typicalmethodsforvalidatingthethermaldesignsofgasturbine

Inventory As these systems operate efficiently over a narrow range of gas temperatures, they are often installed between evaporator modules.