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to the graduate school of natural and applied sciences of middle east technical university by can Özgür Çolpan in partial fulfillment of the requirements for the degree of master of science in mechanical engineering may 2005 EXERGY ANALYSIS OF COMBINED CYCLE COGENERATION SYSTEMS A ... It is known that exergy analysis can be used to evaluate the utilization degree of the available energy, and it can also reveal the weakness of the combined cycle and give the direction of ... Exergy analysis of a combined power and cooling cycle ... Abstract In this paper, exergy analysis is used to evaluate the performance of a combined cycle: organic Rankine cycle (ORC) and absorption cooling system (ACS) using LiBr-H₂O, powered by a solar field with linear concentrators. The goal of this work is to design the cogeneration system able to supply electricity and ambient cooling of an academic building and to find solutions to improve the Exergy analysis of a solar combined cycle: organic Rankine ... Exergy thermodynamics is employed to analyze a binary ammonia water mixture thermodynamic cycle that produces both power and refrigeration. The analysis includes exergy destruction for each component in the cycle as well as the first law and exergy efficiencies of the cycle. Exergy Analysis of a Combined Power and Refrigeration ... Exergy analysis of Garri "2" 180 MW combined cycle power plant Article in Renewable and Sustainable Energy Reviews 79 · May 2017 with 272 Reads How we measure 'reads' Exergy analysis of Garri "2" 180 MW combined cycle power ... Theoretical exergy analysis is carried out for different combined cycle power plant which consists of a gas turbine unit, heat recovery steam generator without extra fuel consumption and steam turbine unit. Theoretical exergy analysis is carried out for different combined cycle power plant which consists of a gas turbine unit, heat recovery steam generator without extra fuel consumption and steam turbine unit.

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