

## Condenser Optimization In Steam Power Plant Springer

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In this paper the effects of the condenser design parameters (such as turbine inlet condition, turbine power and condenser pressure) on heat transfer area, cooling water flow-rate, condenser cost and specific energy generation cost are studied for surface type condenser. The results are given in the text and also shown as diagrams.

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Bekdemir et al. (2007) worked on condenser (indirect contact type condenser) optimization for steam power plant and concluded that the efficiency of the plant can be improved by the correct design...

Condenser Optimization in Steam Power Plant

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isolate degradation during a significant performance degradation event. Condenser Optimization In Steam Power ... Condenser Optimization In Steam Power Plant Springer typically by cooling it. The main use of the condenser is to receive the exhaust steam from steam turbine and condense it.

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In this study, thermal power plant ' s, based on Ideal Rankine Cycle, steam is condensed while the pressure of the condenser changes between 0.1 bar and 0.02 bar. The effect of this condensation on condenser area and effects to the cost is investigated. Change of rate of condenser area is

Optimization of a Condenser in a Thermal Power Plant

The turbine outlet loss increases by reduction of the condenser pressure. In fact reduction of condenser pressure decreases the steam quality or increases the water droplets at the turbine exhaust. These droplets will create a drag force which tends to reduce the turbine output power. 2).

Improvement Power Plant Efficiency with Condenser Pressure

A steam condenser is a closed vessel in which steam is condensed by abstracting the heat by cooling it with water and where the pressure is maintained below atmospheric pressure. The condensed steam is known as condensate. The efficiency of the steam power plant is increased by the use of a condenser. The steam condenser is an essential component of all modern steam power plants.

Steam Condenser: Types, Working Principle, Advantages [PDF]

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typically by cooling it. The main use of the condenser is to receive the exhaust steam from steam turbine and condense it. The benefit of this process is the energy, which can be utilised instead of exhausting it to the atmosphere. The steam condenser generally condenses the steam to a pressure below atmospheric.

Thermoeconomic Optimisation of Steam Condenser for ...

Condenser optimization in steam power plant - NASA/ADS 2.1 The Condenser Model In power plants, the most commonly used condenser is the steam surface condenser. Consequently, steam surface condenser with open cycle cooling water supply system in this study is assumed. 2.1.1 Element of Surface Condenser The heat mechanism is the condensation of saturated

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Steam Power Plant Construction, Working, Advantages and Disadvantages with Diagram; Classification of Steam Condenser. The steam condenser is classified as. 1. Jet condensers or mixing type condenser 2. Surface condenser or non-mixing type condenser

What is Steam Condenser - Complete Explanation ...

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The main advantages of incorporating a steam condenser in a steam power plant are as follows: • It increases the efficiency of the power plant due to increased enthalpy drop.

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Purpose. In thermal power plants, the purpose of a surface condenser is to condense the exhaust steam from a steam turbine to obtain maximum efficiency, and also to convert the turbine exhaust steam into pure water (referred to as steam condensate) so that it may be reused in the steam generator or boiler as boiler feed water.