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Design Of A Natural Draft Counter Flow Cooling Tower For Investigating The Performance Of Cooling Towers In Different Seasons

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Abstract

In this research work the authors used a natural draft counter flow cooling tower for investigating the performance of cooling towers in different seasons. The performance of the natural draft cooling tower depends on wind speed, ambient air temperature and humidity. The authors developed methods to calculate draft losses, evaporate losses, blow down losses etc. The authors concluded that the performance of a cooling tower depends on removal of scale or corrosion. Further at high humidity, large quantity of water is required for cooling the condensate.