

Determination of Optimum Height for Counter Flow Cooling Tower

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ABSTRACT

A model for counter flow cooling tower is present with treatments to recover the simplifications in the literature. The Bosnjakovic formula, mutative water and air properties are used to relax the constraints. The finite volumes of water and moist air are defined separately in opposite flow directions. Mass and energy balances are evaluated for control volume; heat and mass transfer are considered between control volumes. The model is validated with experimental data from literature. The model determines the cooling tower optimum height, evaporation rate and distribution of air and water temperatures, humidity, water flow and Lewis factor along the tower height. It is concluded that: the height is affected by the inlet air humidity; the heat transfer mode is dominated by evaporation, and Lewis factor ranges from 0.91 to 0.924.

Key Words: Cooling Tower, Height, Evaporation Rate, Lewis Factor, One Dimensional

1 INTRODUCTION

A cooling tower is heat rejection equipment. Its main function is to extract waste heat from warm water to the atmosphere. Heat rejection in cooling tower is specified as convection between the fine droplets of water and the surrounding air, and also as evaporation which allows a small portion of water to evaporate into moving air, the process involves both heat and mass transfer.

Cooling towers are widely used in the power generation units, refrigeration and air conditioning industries [1]. Cooling towers can be classified by the movement of water and air as counter-flow and cross-flow types. Moreover, they can also be classified by means of air flow into mechanical draft and natural draft types.

A lot of work has been done for modeling cooling towers mathematically in the past century. Walker [22] proposed a basic theory of cooling tower operation. Merkel [15] developed the first practical theory including the differential equations of heat and mass transfer, which has been well received as the basis for most work on cooling tower modeling and analysis [1-10-5-18-14].

In Merkel's model, the Lewis factor is assumed as unity, this assumption may cause Merkel's model to underestimate the effective tower volume by 5-15% [20]. The influence of the Lewis factor diminishes when the inlet ambient air is relatively hot and humid [8]. For

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Dennis P. Tihansky



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Cost Analysis of Water Pollution Control Dennis P. Tihansky, 1973 *Thermal System Optimization* Vivek K. Patel, Vimal J. Savsani, Mohamed A. Tawhid, 2019-02-14 This book presents a wide ranging review of the latest research and development directions in thermal systems optimization using population based metaheuristic methods It helps readers to identify the best methods for their own systems providing details of mathematical models and algorithms suitable for implementation To reduce mathematical complexity the authors focus on optimization of individual components rather than taking on systems as a whole They employ numerous case studies heat exchangers cooling towers power generators refrigeration systems and others The importance of these subsystems to real world situations from internal combustion to air conditioning is made clear The thermal systems under discussion are analysed using various metaheuristic techniques with comparative results for different systems The inclusion of detailed MATLAB codes in the text will assist readers researchers practitioners or students to assess these techniques for different real world systems Thermal System Optimization is a useful tool for thermal design researchers and engineers in academia and industry wishing to perform thermal system identification with properly optimized parameters It will be of interest for researchers practitioners and graduate students with backgrounds in mechanical chemical and power engineering **Heat and Mass Transfer** Md Monwar Hossain, 2011-09-22 This book covers a number of topics in heat and mass transfer processes for a variety of industrial applications The research papers provide advances in knowledge and design guidelines in terms of theory mathematical modeling and experimental findings in multiple research areas relevant to many industrial processes and related equipment design The design of equipment includes air heaters cooling towers chemical system vaporization high temperature polymerization and hydrogen production by steam reforming Nine chapters of the book will serve as an important reference for scientists and academics working in the research areas mentioned above especially in the aspects of heat and mass transfer analytical numerical solutions and optimization of the processes **ASHRAE Handbook & Product Directory** , 1975 SOUVENIR of 2nd International Science Congress (ISC-2012) Prof. Dipak Sharma, The International Science Congress Association organized the 2nd International Science Congress ISC 2012 with Science and Technology Challenges of 21st Century as its focal theme ISC 2012 was divided in 20 sections A total number of 800 Research Papers and 1200 registrations from 23 countries all over the world have been received They was mainly from Bangladesh Bulgariya Cameroun France Greece Iran Iraq Kazakhstan Korea Lithuania Malaysia Nigeria Nepal Phillipines Pakistan Poland Romania Slovakiya USA Ukraine Venezuela Turkey and India Refrigeration Engineering , 1952 English abstracts from Kholodil naia tekhnika Applied Mechanics Reviews , 1948 Cooling Towers; a Bibliography , 1976 **ASHRAE Journal** , 1962 **ASHRAE Handbook & Product Directory** American Society of Heating, Refrigerating and Air-Conditioning Engineers, 1979 **Heating, Piping, and Air Conditioning** , 1949 Vols for May 1929 Dec 1958 include the Journal of the American Society of Heating and Air Conditioning Engineers called in

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