

## Research and Applications on Heat Transfer Enhancement of Two types of Heat exchangers

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**Abstract.** In this paper, a review on the research progress and applications for heat transfer enhancement of two types of heat exchangers was made, and their heat transfer enhancement methods were compared and analyzed, which could provide a theoretical basis for the structure design and reasonable selection of different heat exchangers, simultaneously the trend of the further research was prospected in order to improve heat transfer effect of heat exchangers.

### Introduction

Heat exchangers are energy saving equipment in which heat transfer between the two fluids can be realized, play an important role in the field of various industrial productions. Up to now, there are two types of heat exchangers, including the traditional heat exchanger and phase change heat storage exchanger. A typical structure in the traditional heat exchanger is shell-and-tube heat exchanger, which accounted for 64% of the total heat exchangers according to the market survey of heat exchangers at home and abroad in 2009[1], and it was only used in the situation of heat transfer. Phase change heat storage exchanger is a new type of heat exchanger used in the situation of heat transfer and heat storage, it has the merits of higher heat storage density, almost isothermal operation, and easy to control etc[2], and can utilize effectively such energies as discontinuous or unstable solar energy, geothermal energy and other renewable energy as well as industrial afterheat or waste heat. Therefore, as for an energy saving device, heat exchangers have a broad application prospect.

### Research and applications on heat transfer enhancement of the traditional heat exchanger

Shell-and-tube heat exchanger is one of the traditional heat exchangers widely used in process industry production, whose fundamental structure is shown in Fig.1. It is only suitable for the situation of heat transfer, and has some advantages such as simple structure, high reliability, wider pressure range, low cost, and matured technique in design, manufacture and use etc[3]. Its heat transfer enhancement research has mainly focused on its two aspects of tube side and shell side.

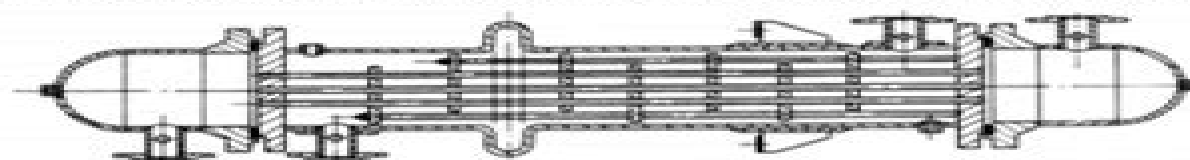


Fig.1 Schematic diagram of the fundamental structure of shell-and-tube heat exchanger

**Heat transfer enhancement in tube side.** It is focused on decreasing its heat boundary layer thickness, increasing fluid turbulent degree and destructing fluid velocity boundary layer in tube side.

# Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27

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