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internal reflection calculation in exchangersbertker and agarwal proposed that the method used to calculate internal reflection factor can be applied to exchangers. the internal reflection factor is the ratio of heat transfer due to flow in the radiant tubes to the overall heat transfer. the factor is to be calculated by means of reflection calculation method and the actual value is then compared to the theoretical value. there are different ways to estimate the reflection factor and the authors recommend the use of reflection calculation method which is the most important in the actual process of exchanger design. fluid mechanics and heat exchange design assuming a steady flow, laplace's law can be used to determine the velocity profile in a pipe. over a length of the pipe there is constant pressure drop. if the temperature difference between inlet and outlet of the pipe is large, there will be no heat transfer. in contrast, in order to achieve the required heat exchange, there is a considerable temperature difference between the inlet and outlet of the pipe. the heat transfer coefficient determines the heat transfer rate. for a given flow rate and a given inlet temperature, the heat transfer rate is determined. if the inlet and outlet temperatures are different, it is then necessary to introduce heat transfer resistance by means of fins, and other accessories such as manifolds, so that heat transfer coefficient is greater. if there is an outlet heat exchanger, heat transfer rate is large. this method is very well suited to the design of an industrial exchanger. heat transfer resistance with inlet and outlet heat exchangers can be found by computer simulation. because the heat transfer rate of a metal sheet depends on the thickness of the sheet, to increase the heat transfer rate, the sheet is often thicker. in the case of an industrial exchanger, if the heat transfer rate can be determined by simulation, it is possible to determine the thickness of the metal sheet. if the exchanger is designed by the same coefficient, it will reduce the cost of manufacture.

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htri technology is proven. our heat transfer engineers and r&d teams have spent the last 50 years performing the most demanding thermal design and analysis work for the world's most demanding industrial applications, including chemical, oil, and gas, power generation, and process. they have developed and tested hundreds of proprietary cooling tower and cooling water applications. for projects that require cooling water treatment, we supply a range of technologies, such as reverse osmosis, electrodialysis and uv treatment systems. marley has a proven track record of innovation and production excellence. we have designed and manufactured more than 2,000,000 tons of heat exchangers for a wide variety of applications, including oil and gas, power generation and process applications. htri products are based on decades of member-sponsored proprietary r&d, and are not available on the open market. htri members have access to htris product line and become part of a research consortium comprised of industry leaders from around the world for less than the salary of a single additional engineer. (membership fee varies with size of company to a maximum of approximately \$50,000 per year. experimental results are discussed in the body of the paper, and a conclusion is included to point out how the results can be used to refine commercial heat transfer design procedures, to evaluate the performance of new heat exchangers, and to predict the performance of new plants. htri is a for-profit membership r&d consortium focusing on heat transfer in process industries. members from all over the world include major engineering firms (e.g., abb, b&w, bechtel, brown & root, ge power systems, kvaerner, stone & webster, etc.), major oil and chemicals companies, equipment makers, and exactly one utility (ontario hydro). htri wants to increase its involvement with utilities, and has approached ufto for help. while their work hasnt yet addressed some of the core power plant systems (steam generators, surface condensers, etc.), they could certainly initiate programs in those areas. 5ec8ef588b

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