

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.

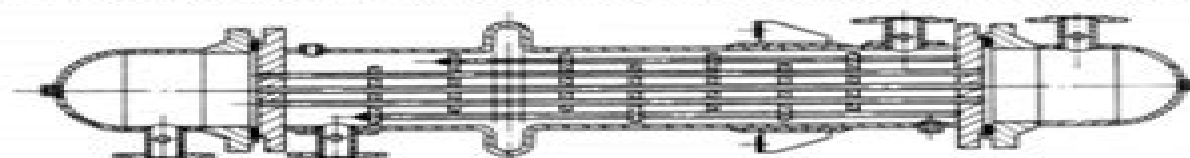


Fig.1 Schematic diagram of the fundamental structure of shell-and-tube heat exchanger

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.

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Interdisciplinary Research in Technology and Management Satyajit Chakrabarti, Rintu Nath, Pradipta Kumar Banerji, Sujit Datta, Sanghamitra Poddar, Malay Gangopadhyaya, 2021-09-14 The conference on Interdisciplinary Research in Technology and Management was a bold experiment in deviating from the traditional approach of conferences which focus on a specific topic or theme By attempting to bring diverse inter related topics on a common platform the conference has sought to answer a long felt need and give a fillip to interdisciplinary research not only within the technology domain but across domains in the management field as well The spectrum of topics covered in the research papers is too wide to be singled out for specific mention but it is noteworthy that these papers addressed many important and relevant concerns of the day

Scientific and Technical Aerospace Reports, 1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

Energy, 1978

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Automotive Air Conditioning Quansheng Zhang, Shengbo Eben Li, Kun Deng, 2016-08-10 This book presents research advances in automotive AC systems using an interdisciplinary approach combining both thermal science and automotive engineering It covers a variety of topics such as control strategies optimization algorithms and diagnosis schemes developed for when automotive air condition systems interact with powertrain dynamics In contrast to the rapid advances in the fields of building HVAC and automotive separately an interdisciplinary examination of both areas has long been neglected The content presented in this book not only reveals opportunities when interaction between on board HVAC and powertrain is considered but also provides new findings to achieve performance improvement using model based methodologies

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Whispering the Strategies of Language: An Emotional Quest through **Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27**

In a digitally-driven world wherever displays reign supreme and instant transmission drowns out the subtleties of language, the profound secrets and emotional nuances hidden within phrases usually move unheard. Yet, nestled within the pages of **Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27** a fascinating fictional treasure pulsating with fresh thoughts, lies a fantastic journey waiting to be undertaken. Written by an experienced wordsmith, that charming opus invites visitors on an introspective trip, softly unraveling the veiled truths and profound impact resonating within ab muscles material of each and every word. Within the mental depths with this poignant evaluation, we can embark upon a sincere exploration of the book is primary subjects, dissect their captivating writing fashion, and yield to the powerful resonance it evokes heavy within the recesses of readers hearts.

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Table of Contents Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27

1. Understanding the eBook Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27
 - The Rise of Digital Reading Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27
 - Advantages of eBooks Over Traditional Books
2. Identifying Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27
 - User-Friendly Interface

4. Exploring eBook Recommendations from Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27
 - Personalized Recommendations
 - Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27 User Reviews and Ratings
 - Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27 and Bestseller Lists
5. Accessing Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27 Free and Paid eBooks
 - Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27 Public Domain eBooks
 - Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27 eBook Subscription Services
 - Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27 Budget-Friendly Options
6. Navigating Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27 eBook Formats
 - ePub, PDF, MOBI, and More
 - Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27 Compatibility with Devices
 - Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27
 - Highlighting and Note-Taking Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27
 - Interactive Elements Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27
8. Staying Engaged with Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27
9. Balancing eBooks and Physical Books Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time

11. Cultivating a Reading Routine Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27
 - Setting Reading Goals Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27
 - Fact-Checking eBook Content of Heat Exchangers For Twophase Applications Heat Transfer Division Volume 27
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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