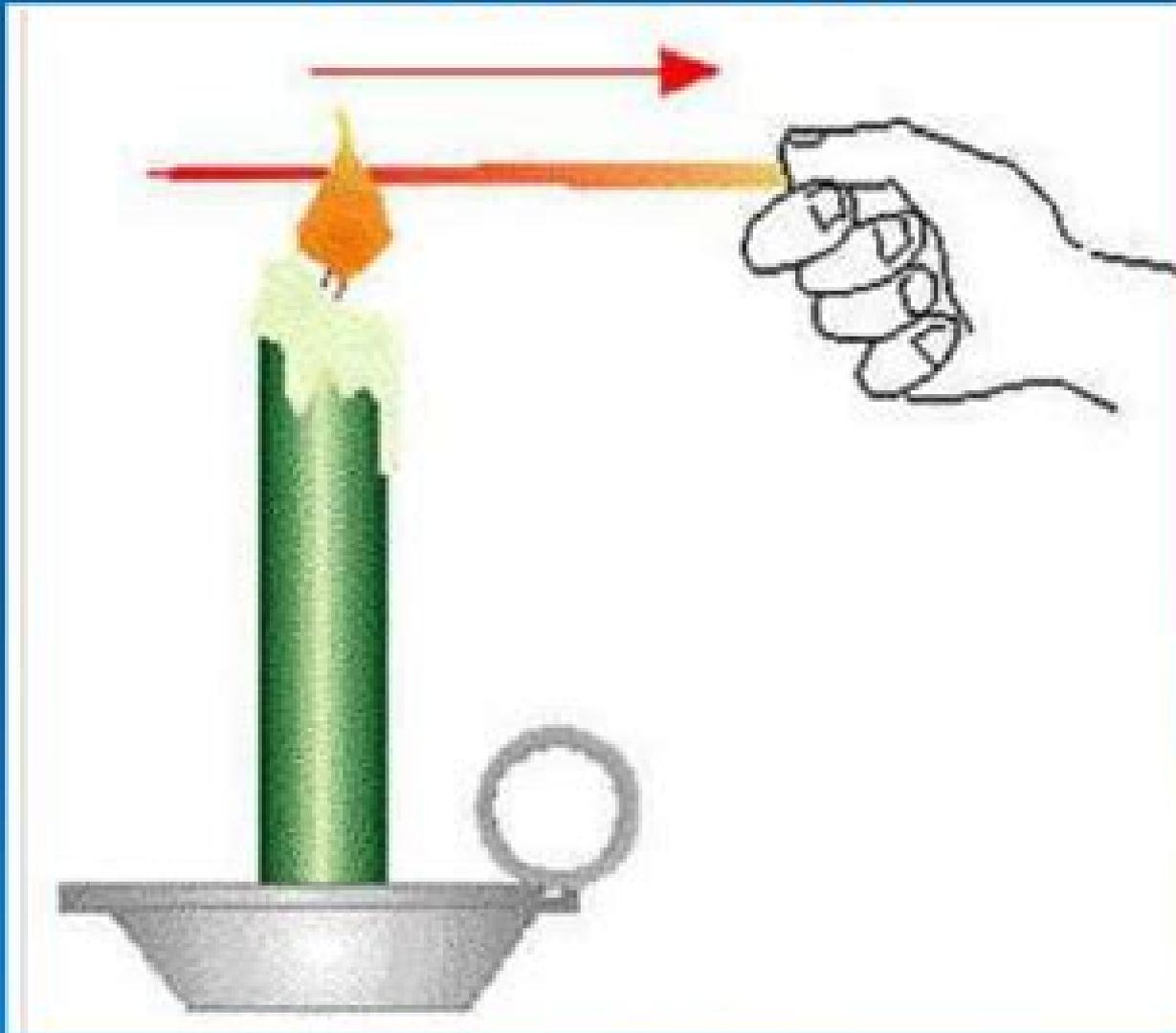


Conduction: Heat transfer by direct contact



Direct Contact Heat Transfer

Wickham Gregory Smith



Direct Contact Heat Transfer:

Direct-Contact Heat Transfer Frank Kreith, R.F. Boehm, 2013-11-11 to increase the use of direct contact processes the National Science Foundation supported a workshop on direct contact heat transfer at the Solar Energy Research Institute in the summer of 1985 We served as organizers for this workshop which emphasized an area of thermal engineering that in our opinion has great promise for the future but has not yet reached the point of wide spread commercial application Hence a summary of the state of knowledge at this point is timely The workshop had a dual objective 1 To summarize the current state of knowledge in such a form that industrial practitioners can make use of the available information 2 To indicate the research and development needed to advance the state of the art indicating not only what kind of research is needed but also the industrial potential that could be realized if the information to be obtained through the proposed research activities were available

Heat Transfer in a Direct Contact Liquid-liquid Heat Exchanger Walter M. Loss, Colorado State University, 1975 *Direct-contact Heat Transfer with Solid-liquid Phase Change* Billy Lyn Thomas, 1973 **Direct Contact Heat Transfer for Thermal Energy Storage** John D. Wright, Solar Energy Research Institute, 1980 Direct contact heat exchange offers the potential for increased efficiency and lower heat transfer costs in a variety of thermal energy storage systems SERI models of direct contact heat transfer based on literature information have identified dispersed phase drop size the mechanism of heat transfer within the drop and dispersed phase holdup as the parameters controlling direct contact system performance However current information is insufficient to predict these factors a priori Therefore tests have been defined and equipment constructed to provide independent determination of drop size heat transfer mechanism and hold up

DIRECT CONTACT HEAT TRANSFER (Volume 31). J. BRIDGWATER, 1973 **Energy**, 1978 CRC Handbook of Thermal Engineering Raj P. Chhabra, 2017-11-08 The CRC Handbook of Thermal Engineering Second Edition is a fully updated version of this respected reference work with chapters written by leading experts Its first part covers basic concepts equations and principles of thermodynamics heat transfer and fluid dynamics Following that is detailed coverage of major application areas such as bioengineering energy efficient building systems traditional and renewable energy sources food processing and aerospace heat transfer topics The latest numerical and computational tools microscale and nanoscale engineering and new complex structured materials are also presented Designed for easy reference this new edition is a must have volume for engineers and researchers around the globe **Combustion Efficiency Tables** Harry Taplin, 1991 Anyone involved in improving combustion efficiency will find the ninety three combustion efficiency tables contained in this reference a valuable time saving tool Published here for the first time the tables are based on the ASME ANSI Power Test Code 4 1 and are designed to systematically illustrate how different variables impact the combustion process The vast amount of information presented is conveniently organized for easy reference so that the user can quickly locate the information which pertains to the type of fuel or type of boiler he is dealing with **Model of Direct Contact Heat Transfer for Latent**

Heat Energy Storage, 1980 Direct contact heat transfer is an attractive method to reduce the cost of heat exchange for latent heat thermal energy storage systems However current performance information is insufficient to allow an accurate appraisal of its economic and technical feasibility In a direct contact heat transfer system an immiscible fluid is bubbled through the storage media and heat is transferred between the phases as the droplets rise An analytical model is presented for predicting the temperature of the rising droplets from information in the literature The drop size is calculated from empirical correlations in the jetting formation region and rise velocity is characterized by a creeping flow surface cell model which accounts for the hindering effects of neighboring droplets The viscosity of the crystallizing solution in the rise velocity equation is approximated by an expression for concentrated suspensions where the percentage of solids is taken as the percentage of crystallization Dispersed phase holdup is predicted with the rise velocity Calculation of the rate of heat transfer to the dispersed immiscible fluid droplets is based on three different internal hydrodynamic approximations rigid internally circulating and wall mixed spheres The predictions of the circulating drop case agree reasonably well in the latent heat region with previous data on a similar system However because the model is also sensitive to the estimates used for drop size continuous phase viscosity and interfacial tension the heat transfer mechanism cannot be conclusively identified and experimental research is required to establish the validity of the model

Liquid-liquid Direct Contact Heat Transfer John Nicholas Oliver Coad,1983 **Direct-Contact Heat Exchanger** Hua Wang,2017 Direct contact heat transfer involves the exchange of heat between two immiscible fluids by bringing them into contact at different temperatures There are two basic bubbling regimes in direct contact heat exchanger homogeneous and heterogeneous Industrially however the homogeneous bubbling regime is less likely to prevail owing to the high gas flow rates employed The mixture homogeneity and the non homogeneity of the mixture can be characterized by the Betti numbers and the mixing time can be estimated relying on image analysis and statistics in a direct contact heat exchanger To accurately investigate the space time features of the mixing process in a direct contact heat exchanger the uniformity coefficient method based on discrepancy theory for assessing the mixing time of bubbles behind the viewing windows is effective Hence the complexity of the bubble swarm patterns can be reduced and their mechanisms clarified and the heat transfer performance in a direct contact heat exchanger can be elucidated

DOE/RA, 1980 **Cross-current Direct Contact Heat Transfer** David M. Hurst,1980 Advances in Energy, Environment and Materials Science Yeping Wang,Jianhua Zhao,2018-11-22 The International Conference on Energy Environment and Materials Science EEMS2015 was held in Guangzhou China from August 25 26 2015 EEMS2015 provided a platform for academic scientists researchers and scholars to exchange and share their experiences and research results within the fields of energy science energy technology environmental science environmental engineering motivation automation and electrical engineering material science and engineering the discovery or development of energy and environment and materials science

Research and Development Progress Report United States. Office of Saline

Water,1970 **Heat Transfer Characteristics of a Surface Type Direct Contact Boiler** ,1976 Two direct contact heat exchangers were constructed and test results were obtained using water and refrigerant 113 as the working fluids The heat exchangers were operated in a three phase mode the water remained liquid throughout the vessel and the liquid refrigerant 113 underwent vaporization following direct injection into the water The effect of important operational parameters operating heights refrigerant 113 injection techniques mass flow ratios and temperatures was studied to determine generalized trends important in the design and operation of a prototype three phase direct contact heat exchanger The primary system used in this study performed well overall The initial favorable results of this study warrant further investigation of direct contact heat exchange as a means of utilizing geothermal energy *Direct Contact Heat Transfer to a Dispersed Droplet with Change of Phase* Nagwa Mahmoud Elshaik,1990 *Direct Contact Heat Transfer for Thermal Energy Storage* John D. Wright,1980 Direct contact heat exchange offers the potential for increased efficiency and lower heat transfer costs in a variety of thermal energy storage systems SERI models of direct contact heat transfer based on literature information have identified dispersed phase drop size the mechanism of heat transfer within the drop and dispersed phase holdup as the parameters controlling direct contact system performance However current information is insufficient to predict these factors a priori Therefore tests have been defined and equipment constructed to provide independent determination of drop size heat transfer mechanism and hold up **The Analysis of a Three-phase Direct Contact Heat Transfer Experiment** Barry Cochran,1983 **Direct Contact Heat Transfer Between Immiscible Phases in a Spray Column** Wickham Gregory Smith,1970

Reviewing **Direct Contact Heat Transfer**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Direct Contact Heat Transfer**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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