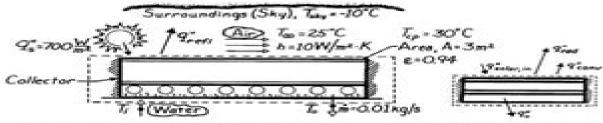
KNOWN: Solar collector designed to heat water operating under prescribed solar irradiation and loss conditions.

FIND: (a) Useful heat collected per unit area of the collector, q_u^u, (b) Temperature rise of the water flow, T_o - T_i, and (c) Collector efficiency.

SCHEMATIC:



ASSUMPTIONS: (1) Steady-state conditions, (2) No heat losses out sides or back of collector, (3) Collector area is small compared to sky surroundings.

PROPERTIES: Table A.6, Water (300K): cp = 4179 J/kg-K.

ANALYSIS: (a) Defining the collector as the control volume and writing the conservation of energy requirement on a per unit area basis, find that

$$\hat{E}_{in} - \hat{E}_{out} + \hat{E}_{gon} = \hat{E}_{st}.$$

Identifying processes as per above right sketch,

$$q_{\text{solar}} - q_{\text{rad}} - q_{\text{conv}} - q_{\text{u}} = 0$$

where $q_{solar}^{\sigma} = 0.9 \ q_s^{\sigma}$; that is, 90% of the solar flux is absorbed in the collector (Eq. 1.6). Using the appropriate rate equations, the useful heat rate per unit area is

$$q''_{u} = 0.9 \ q''_{s} - \varepsilon \sigma \left(T_{cp}^{4} - T_{sky}^{4} \right) - h \left(T_{s} - T_{oo} \right)$$

$$q''_{u} = 0.9 \times 700 \frac{W}{m^{2}} - 0.94 \times 5.67 \times 10^{-8} \frac{W}{m^{2} \cdot K^{4}} \left(303^{4} - 263^{4} \right) K^{4} - 10 \frac{W}{m^{2} \cdot K} (30 - 25)^{\circ} C$$

$$q''_{u} = 630 \ W / m^{2} - 194 \ W / m^{2} - 50 \ W / m^{2} = 386 \ W / m^{2}.$$

(b) The total useful heat collected is q_u^u · A. Defining a control volume about the water tubing, the useful heat causes an enthalpy change of the flowing water. That is,

$$q_u \cdot A = \text{rinc}_p (T_i - T_o)$$
 or

$$(T_i - T_o) = 386 \text{ W/m}^2 \times 3\text{m}^2 / 0.01 \text{kg/s} \times 4179 \text{J/kg} \cdot \text{K} = 27.7^{\circ}\text{C}.$$

(c) The efficiency is
$$\eta = q_u^* / q_S^* = (386 \text{ W/m}^2)/(700 \text{ W/m}^2) = 0.55 \text{ or } 55\%$$
.

COMMENTS: Note how the sky has been treated as large surroundings at a uniform temperature T_{sky}.

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Richard Bailey

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Computational Heat Transfer Yogesh Jaluria, 2017-10-19 This new edition updated the material by expanding coverage of certain topics adding new examples and problems removing outdated material and adding a computer disk which will be included with each book Professor Jaluria and Torrance have structured a text addressing both finite difference and finite element methods comparing a number of applicable methods Thermal Radiation Heat Transfer, 5th Edition John R. Howell, M. Pinar Menguc, Robert Siegel, 2010-09-28 Providing a comprehensive overview of the radiative behavior and properties of materials the fifth edition of this classic textbook describes the physics of radiative heat transfer development of relevant analysis methods and associated mathematical and numerical techniques Retaining the salient features and fundamental coverage that have made it popular Thermal Radiation Heat Transfer Fifth Edition has been carefully streamlined to omit superfluous material yet enhanced to update information with extensive references Includes four new chapters on Inverse Methods Electromagnetic Theory Scattering and Absorption by Particles and Near Field Radiative Transfer Keeping pace with significant developments this book begins by addressing the radiative properties of blackbody and opaque materials and how they are predicted using electromagnetic theory and obtained through measurements It discusses radiative exchange in enclosures without any radiating medium between the surfaces and where heat conduction is included within the boundaries The book also covers the radiative properties of gases and addresses energy exchange when gases and other materials interact with radiative energy as occurs in furnaces To make this challenging subject matter easily understandable for students the authors have revised and reorganized this textbook to produce a streamlined practical learning tool that Applies the common nomenclature adopted by the major heat transfer journals Consolidates past material reincorporating much of the previous text into appendices Provides an updated expanded and alphabetized collection of references assembling them in one appendix Offers a helpful list of symbols With worked out examples chapter end homework problems and other useful learning features such as concluding remarks and historical notes this new edition continues its tradition of serving both as a comprehensive textbook for those studying and applying radiative transfer and as a repository of vital literary references for the serious researcher Heat and Mass Transfer Hans Dieter Baehr, Karl Stephan, 2006-08-02 This book provides a solid foundation in the principles of heat and mass transfer and shows how to solve problems by applying modern methods. The basic theory is developed systematically exploring in detail the solution methods to all important problems The revised second edition incorporates state of the art findings on heat and mass transfer correlations The book will be useful not only to upper and graduate level students but also to practicing scientists and engineers Many worked out examples and numerous exercises with their solutions will facilitate learning and understanding and an appendix includes data on key properties of important substances Solar Thermal Energy Systems Werner Platzer, Robert Stieglitz, 2024 Zusammenfassung This textbook is intended for master's level engineering students in the field

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Donald Q Kern that by many is held to be the gold standard This second edition book is divided into three parts Fundamental Principles Heat Exchangers and Other Heat Transfer Equipment Considerations Part I provides a series of chapters concerned with introductory topics that are required when solving heat transfer problems This part of the book deals with topics such as steady state heat conduction unsteady state conduction forced convection free convection and radiation Part II is considered by the authors to be the meat of the book and the primary reason for undertaking this project Other than minor updates Part II remains relatively unchanged from the first edition Notably it includes Kern's original design methodology for double pipe shell and tube and extended surface heat exchangers Part II also includes boiling and condensation boilers cooling towers and quenchers as well as newly designed open ended problems Part III of the book examines other related topics of interest including refrigeration and cryogenics batch and unsteady state processes health safety and the accompanying topic of risk In addition this part also examines the impact of entropy calculations on exchanger design A 36 page Appendix includes 12 tables of properties layouts and design factors WHAT IS NEW IN THE 2ND EDITION Changes that are addressed in the 2nd edition so that Kern's original work continues to remain relevant in 21st century process engineering include Updated Heat Exchanger Design Increased Number of Illustrative Examples Energy Conservation Entropy Considerations Environmental Considerations Health Safety Risk Assessment Refrigeration and Cryogenics

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Membrane Dehumidification and Cooling Vivekh Prabakaran, Chua Kian of analysis and simulation with MATLAB Jon, 2023-04-27 Membrane Dehumidification and Cooling Fundamentals and Applications presents the state of the art on membrane dehumidifiers highlighting their most recent advancements and providing key insights into global R D interests With a strong focus on applications the book offers characterization techniques to evaluate the potential of hygroscopic materials as well as experimental methods to study the dehumidifiers performance The book begins by highlighting the demerits of conventional cooling systems and then reviews electrically driven alternative cooling solutions A comparative study between different dehumidification techniques is also given along with sections on fundamental transport mechanisms and thermodynamic modeling Finally scaling heat transfer and thermodynamic analysis are presented along with a review of hybrid membrane based air conditioners This book is a one stop resource for recent advancements in membrane dehumidification and cooling applications It is an essential read for students researchers and engineers interested in thermal engineering heat and mass transfer alternative cooling energy materials and dehumidification Presents the fundamental aspects and applications of the latest membrane dehumidification technologies Comprehensively emphasizes new energy materials experimental techniques numerical methods and thermal evaluation frameworks Focuses on the feasibility of membrane dehumidifiers in the next generation of hybrid cooling systems **Handbook of Environmental Degradation** of Materials Myer Kutz, 2012-12-31 Nothing stays the same for ever The environmental degradation and corrosion of materials is inevitable and affects most aspects of life In industrial settings this inescapable fact has very significant financial safety and environmental implications The Handbook of Environmental Degradation of Materials explains how to measure analyse and control environmental degradation for a wide range of industrial materials including metals polymers ceramics concrete wood and textiles exposed to environmental factors such as weather seawater and fire Divided into sections which deal with analysis types of degradation protection and surface engineering respectively the reader is introduced to the wide variety of environmental effects and what can be done to control them The expert contributors to this book provide a wealth of insider knowledge and engineering knowhow complementing their explanations and advice with Case Studies from areas such as pipelines tankers packaging and chemical processing equipment ensures that the reader understands the practical measures that can be put in place to save money lives and the environment The Handbook's broad scope introduces the reader to the effects of environmental degradation on a wide range of materials including metals plastics concrete wood and textiles For each type of material the book describes the kind of degradation that effects it and how best to protect it Case Studies show how organizations from small consulting firms to corporate giants design and manufacture products that are more resistant to environmental effects Heat and Mass Transfer in Energy Systems Alessandro Mauro, Nicola Massarotti, 2020-01-09 In recent years the interest of the scientific community towards efficient energy systems has significantly increased One of the reasons is certainly related to the change in the temperature of the planet which has

increased by 0 76 C with respect to preindustrial levels according to the Intergovernmental Panel on Climate Change IPCC and is still increasing The European Union considers it vital to prevent global warming from exceeding 2 C with respect to pre industrial levels as it has been proven that this will result in irreversible and potentially catastrophic changes These changes in climate are mainly caused by greenhouse gas emissions related to human activities and can be drastically reduced by employing energy systems for the heating and cooling of buildings as well as for power production characterized by high efficiency levels and or based on renewable energy sources This Special Issue published in the Energies journal includes 13 contributions from across the world including a wide range of applications such as hybrid residential renewable energy systems desiccant based air handling units heat exchanges for engine WHR solar chimney systems and other interesting **Design and Optimization of Thermal Systems** Yogesh Jaluria, 2007-12-13 Thermal systems play an increasingly symbiotic role alongside mechanical systems in varied applications spanning materials processing energy conversion pollution aerospace and automobiles Responding to the need for a flexible yet systematic approach to designing thermal systems across such diverse fields Design and Optimization of Thermal Applications of Heat, Mass and Fluid Boundary Layers R. O. Fagbenle, O. M. Amoo, S. Aliu, A. Falana, 2020-01-27 Applications of Heat Mass and Fluid Boundary Layers brings together the latest research on boundary layers where there has been remarkable advancements in recent years This book highlights relevant concepts and solutions to energy issues and environmental sustainability by combining fundamental theory on boundary layers with real world industrial applications from among others the thermal nuclear and chemical industries The book s editors and their team of expert contributors discuss many core themes including advanced heat transfer fluids and boundary layer analysis physics of fluid motion and viscous flow thermodynamics and transport phenomena alongside key methods of analysis such as the Merk Chao Fagbenle method This book s multidisciplinary coverage will give engineers scientists researchers and graduate students in the areas of heat mass fluid flow and transfer a thorough understanding of the technicalities methods and applications of boundary layers with a unified approach to energy climate change and a sustainable future Electromagnetic, Mechanical, and Transport Properties of Composite Materials Rajinder Pal, 2014-08-27 In the design processing and applications of composite materials a thorough understanding of the physical properties is required It is important to be able to predict the variations of these properties with the kind shape and concentration of filler materials. The currently available books on composite materials often emphasize mechanical proThe Enigmatic Realm of Heat Transfer Incropera 5th Edition Solution: Unleashing the Language is Inner Magic

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