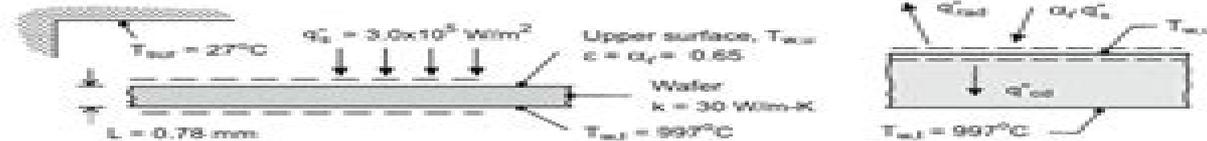


PROBLEM 1.42

KNOWN: Silicon wafer, radiantly heated by lamps, experiencing an annealing process with known backside temperature.

FIND: Whether temperature difference across the wafer thickness is less than 2 °C in order to avoid damaging the wafer.

SCHEMATIC:



ASSUMPTIONS: (1) Steady-state conditions, (2) One-dimensional conduction in wafer, (3) Radiation exchange between upper surface of wafer and surroundings is between a small object and a large enclosure, and (4) Vacuum condition in chamber, no convection.

PROPERTIES: Wafer: $k = 30 \text{ W/m}\cdot\text{K}$, $\epsilon = 0.65$.

ANALYSIS: Perform a surface energy balance on the upper surface of the wafer to determine $T_{w,u}$. The processes include the absorbed radiant flux from the lamps, radiation exchange with the chamber walls, and conduction through the wafer.

$$\begin{aligned} \dot{E}_{\text{in}} - \dot{E}_{\text{out}} &= 0 \\ \epsilon q_s'' - q_{\text{rad}}'' - q_{\text{cond}}'' &= 0 \\ \epsilon q_s'' - \epsilon q_s'' \left(\frac{T_{w,u}^4}{T_{\text{sur}}^4} - \frac{T_{w,u}^4}{T_{w,u}^4} \right) - k \frac{T_{w,u} - T_{w,b}}{L} &= 0 \\ 0.65 \cdot 3.0 \cdot 10^5 \text{ W/m}^2 - 0.65 \cdot 5.67 \cdot 10^{-8} \text{ W/m}^2 \cdot \text{K}^4 \left(T_{w,u}^4 - 27 \cdot 273^4 \text{ K}^4 \right) - 30 \text{ W/m}\cdot\text{K} \cdot \frac{T_{w,u} - 997}{0.00078 \text{ m}} &= 0 \end{aligned}$$

$$T_{w,u} = 1273 \text{ K} = 1000 \text{ }^\circ\text{C}$$

COMMENTS: (1) The temperature difference for this steady-state operating condition, $T_{w,u} - T_{w,b}$, is larger than 2 °C. Warping of the wafer and inducing slip planes in the crystal structure could occur.

(2) The radiation exchange rate equation requires that temperature must be expressed in kelvin units. Why is it permissible to use kelvin or Celsius temperature units in the conduction rate equation?

(3) Note how the surface energy balance, Eq. 1.12, is represented schematically. It is essential to show the control surfaces, and then identify the rate processes associated with the surfaces. Make sure the directions (in or out) of the process are consistent with the energy balance equation.

PROBLEM 1.43

KNOWN: Silicon wafer positioned in furnace with top and bottom surfaces exposed to hot and cool zones, respectively.

FIND: (a) Initial rate of change of the wafer temperature corresponding to the wafer temperature $T_{w,i} = 300 \text{ K}$, and (b) Steady-state temperature reached if the wafer remains in this position. How significant is convection for this situation? Sketch how you'd expect the wafer temperature to vary as a function of vertical distance.

SCHEMATIC:

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D. Yogi Goswami



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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 Kern's Process Heat Transfer Ann Marie Flynn, Toshihiro Akashige, Louis Theodore, 2019-05-29 This edition ensures the legacy of the original 1950 classic Process Heat Transfer by 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

Student Study Guide to accompany Introduction to Heat, 4th Edition and Fundamentals of Heat, 5th Edition Frank P. Incropera, David P. DeWitt, 2004-12-17 Work more effectively and gauge your progress as you go along This Student Study Guide and Solutions Manual has been developed by the publisher as a supplement to accompany Incropera's Fundamentals of Heat Mass Transfer 5th Edition and Introduction to Heat Mass Transfer 4th Edition It contains a summary of key concepts from each chapter fully worked solutions to representative problems from the text and in many cases includes exploration of a solution over a range of values using the software package Interactive Heat Transfer v2.0 This supplement is intended to help students focus on the key concepts from the text verify their solutions by comparing them to the authors own worked solutions and use computer tools to explore the behavior of the systems in question Each worked solution follows the structured problem solving approach from the text Comments throughout the solution help in explaining the thought process and a Comments section at the end of each solutions discusses reasonableness and or implications of the answer Introduction

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The CRC Handbook of Mechanical Engineering D. Yogi Goswami,2004-09-29 The second edition of this standard setting handbook provides and all encompassing reference for the practicing engineer in industry government and academia with relevant background and up to date information on the most important topics of modern mechanical engineering These topics include modern manufacturing and design robotics computer engineering environmental engineering economics patent law and communication information systems The final chapter and appendix provide information regarding physical properties and mathematical and computational methods New topics include nanotechnology MEMS electronic packaging global climate change electric and hybrid vehicles and bioengineering

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Design and Optimization of Thermal Systems, Third Edition Yogesh Jaluria,2019-09-06 Design and Optimization of Thermal Systems Third Edition with MATLAB Applications provides systematic and efficient approaches to the design of thermal systems which are of interest in a wide range of applications It presents basic concepts and procedures for conceptual design problem formulation modeling simulation design evaluation achieving feasible design and optimization Emphasizing modeling and simulation with experimentation for physical insight and model validation the third edition covers the areas of material selection manufacturability economic aspects sensitivity genetic and gradient search methods knowledge based design methodology uncertainty and other aspects that arise in practical situations This edition features many new and revised examples and problems from diverse application areas and more extensive coverage of analysis and simulation with MATLAB

Introduction to Thermal and Fluids Engineering Deborah A. Kaminski,Michael K. Jensen,2017-02-14 Kaminski Jensen is the first text to bring together thermodynamics fluid mechanics and heat transfer in an integrated manner giving students the fullest possible understanding of their interconnectedness The three topics are introduced early in the text allowing for applications across these areas early in the course Class tested for two years to more than 800 students at Rensselaer the text s novel approach has received national attention for its demonstrable success

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