

1-25  A 2 mm thick by 3 cm wide AISI 1010 carbon steel strip is cooled in a chamber from 597 to 47°C to avoid instantaneous thermal burn upon contact with skin tissue. The amount of heat rate to be removed from the steel strip is to be determined.



Assumptions 1 Steady operating conditions exist. 2 The stainless steel sheet has constant specific heat and density. 3 Changes in potential and kinetic energy are negligible.

Properties For AISI 1010 carbon steel, the specific heat of AISI 1010 steel at $(597 + 47)^\circ\text{C} / 2 = 322^\circ\text{C} = 595\text{ K}$ is $682\text{ J/kg}\cdot\text{K}$ (by interpolation from Table A-3), and the density is given as 7832 kg/m^3 .

Analysis The mass of the steel strip being conveyed enters and exits the chamber at a rate of

$$\dot{m} = \rho \dot{V} = \rho b v t$$

The rate of heat being removed from the steel strip in the chamber is given as

$$\begin{aligned}\dot{Q}_{\text{removed}} &= \dot{m} c_p (T_{\text{in}} - T_{\text{out}}) \\ &= \rho b v t c_p (T_{\text{in}} - T_{\text{out}}) \\ &= (7832\text{ kg/m}^3)(1\text{ m/s})(0.030\text{ m})(0.002\text{ m})(682\text{ J/kg}\cdot\text{K})(597 - 47)\text{ K} \\ &= \mathbf{176\text{ kW}}\end{aligned}$$

Discussion By slowing down the conveyance speed of the steel strip would reduce the amount of heat rate needed to be removed from the steel strip in the cooling chamber. Since slowing the conveyance speed allows more time for the steel strip to cool.

Fundamentals Of Heat Mass Transfer Solution Manual 6th

Dilip K. Das, Rajaram K. Prabhudesai



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Fundamentals of Heat and Mass Transfer T. L. Bergman, 2011-04-12 Fundamentals of Heat and Mass Transfer 7th Edition is the gold standard of heat transfer pedagogy for more than 30 years with a commitment to continuous improvement by four authors having more than 150 years of combined experience in heat transfer education research and practice Using a rigorous and systematic problem solving methodology pioneered by this text it is abundantly filled with examples and problems that reveal the richness and beauty of the discipline This edition maintains its foundation in the four central learning objectives for students and also makes heat and mass transfer more approachable with an additional emphasis on the fundamental concepts as well as highlighting the relevance of those ideas with exciting applications to the most critical issues of today and the coming decades energy and the environment An updated version of Interactive Heat Transfer IHT software makes it even easier to efficiently and accurately solve problems *Solutions Manual to Accompany Fundamentals of Environmental Sampling and Analysis* Chunlong Zhang, 2024-07-04 This is the Solutions Manual to accompany Fundamentals of Environmental Sampling and Analysis Second Edition It provides solutions to the exercises and problems found in the main volume This book introduces a comprehensive overview on the fundamentals and applications of environmental sampling and analysis for students in environmental science and engineering as well as environmental professionals involved in sampling and analytical work The book details fundamentals of sampling selection of standard methods QA QC sample preparation chemical and instrumental principles and method applications to various contaminants in environmental matrices air water soil waste and biological samples The book gives an integrated introduction to sampling and analysis both are essential to quality environmental data For example contrary to other books that introduce a specific area of sampling and analysis this text provides a balanced mix of field sampling and laboratory analysis essential knowledge in chemistry statistics hydrology regulations wet chemical methods for conventional chemicals as well as various modern instrumental techniques for contaminants of emerging concerns The new edition adds three standalone chapters regarding the basics of analytical and organic chemistry environmental data analysis mass spectrometry and other significant amounts of new materials such as time integrated passive sampling incremental sampling green sample preparation Raman spectroscopy chiral separation and non target analysis In addition the second edition provides more examples visual aids case studies and end of chapter exercise problems to enhance a better understanding of the fundamentals of environmental sampling and analysis while incorporating current literature mostly peer reviewed journal papers regarding the applications and challenges in the field of environmental sampling and analysis *Fundamentals of Heat and Mass Transfer* Frank P. Incropera, 2007 This title provides a complete introduction to the physical origins of heat and mass transfer while using problem solving methodology The systematic approach aims to develop readers confidence in using this tool for thermal analysis *Solutions Manual to Accompany Fundamentals of Heat and Mass Transfer, Third Edition, and Introduction to*

Heat Transfer, Second Edition Frank P. Incropera, David P. DeWitt, 1990 Fundamentals of Multiphase Heat Transfer and Flow Amir Faghri, Yuwen Zhang, 2019-09-13 This textbook presents a modern treatment of fundamentals of heat and mass transfer in the context of all types of multiphase flows with possibility of phase changes among solid liquid and vapor It serves equally as a textbook for undergraduate senior and graduate students in a wide variety of engineering disciplines including mechanical engineering chemical engineering material science and engineering nuclear engineering biomedical engineering and environmental engineering Multiphase Heat Transfer and Flow can also be used to teach contemporary and novel applications of heat and mass transfer Concepts are reinforced with numerous examples and end of chapter problems A solutions manual and PowerPoint presentation are available to instructors While the book is designed for students it is also very useful for practicing engineers working in technical areas related to both macro and micro scale systems that emphasize multiphase multicomponent and non conventional geometries with coupled heat and mass transfer and phase change with the possibility of full numerical simulation Encyclopedia of Iron, Steel, and Their Alloys (Online Version) Rafael Colás, George E. Totten, 2016-01-06 The first of many important works featured in CRC Press Metals and Alloys Encyclopedia Collection the Encyclopedia of Iron Steel and Their Alloys covers all the fundamental theoretical and application related aspects of the metallurgical science engineering and technology of iron steel and their alloys This Five Volume Set addresses topics such as extractive metallurgy powder metallurgy and processing physical metallurgy production engineering corrosion engineering thermal processing metalworking welding iron and steelmaking heat treating rolling casting hot and cold forming surface finishing and coating crystallography metallography computational metallurgy metal matrix composites intermetallics nano and micro structured metals and alloys nano and micro alloying effects special steels and mining A valuable reference for materials scientists and engineers chemists manufacturers miners researchers and students this must have encyclopedia Provides extensive coverage of properties and recommended practices Includes a wealth of helpful charts nomograms and figures Contains cross referencing for quick and easy search Each entry is written by a subject matter expert and reviewed by an international panel of renowned researchers from academia government and industry Also Available Online This Taylor E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co uk Analytical Solution Methods for Boundary Value Problems A.S. Yakimov, 2016-08-13 Analytical Solution Methods for Boundary Value Problems is an extensively revised new English language edition of the original 2011 Russian language work which provides deep analysis methods and exact solutions for mathematical physicists seeking to model germane linear and nonlinear boundary problems Current analytical solutions of equations within mathematical physics fail completely to meet boundary conditions of the second and third kind and are wholly obtained by the defunct theory of series These solutions are also obtained for linear partial differential equations of the second order They do not apply to solutions of partial differential equations of the first order and they are incapable of solving nonlinear boundary value problems Analytical Solution Methods

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Journal of Heat Transfer, 2005 **Principles of Heat Transfer** Massoud Kaviany, 2002 CD ROM contains Equations and relations models for thermal circuit modeling *Fundamentals of Industrial Heat Exchangers* Hossain Nemati, Mohammad Moghimi Ardekani, James Mahootchi, Josua P. Meyer, 2024-01-13 Fundamentals of Heat Exchangers Selection Design Construction and Operation is a detailed guide to the design and construction of heat exchangers in both a research and industry context This book is split into three parts firstly outlining the fundamental properties of various types of heat exchangers and the critical decisions surrounding material selection manufacturing methods and cleaning options The second part provides a comprehensive grounding in the theory and analysis of heat exchangers guiding the reader step by step toward thermal design Finally the book shows how to apply industrial codes to this process with a detailed demonstration designing a shell and tube exchanger compliant with the important but complex code ASME Sec VIII Div 1 Taking into account the real world considerations of heat exchanger design this book takes a reader from fundamental principles to the mechanical design of heat exchangers for industry or research Presents a full guide to the design of heat exchangers from thermal analysis to mechanical construction Provides detailed case studies and real world applications including a unique collection of photos sketches and data from industry and research Takes designers through the process of applying industry codes using a step by step demonstration of designing shell and tube heat exchangers compliant with ASME Sec VIII Div 1 *Simulation of Thermoelastic Behaviour of Spacecraft Structures* Simon Appel, Jaap

Wijker,2021-08-31 This book provides recommendations for thermal and structural modelling of spacecraft structures for predicting thermoelastic responses It touches upon the related aspects of the finite element and thermal lumped parameter method A mix of theoretical and practical examples supports the modelling guidelines Starting from the system needs of instruments of spacecraft the reader is supported with the development of the practical requirements for the joint development of the thermal and structural models It provides points of attention and suggestions to check the quality of the models The temperature mapping problem typical for spacecraft thermoelastic analysis is addressed The principles of various temperature mapping methods are presented The prescribed average temperature method co developed by the authors is discussed in detail together with its spin off to provide high quality conductors for thermal models The book concludes with the discussion of the application of uncertainty assessment methods The thermoelastic analysis chain is computationally expensive Therefore the 2k 1 point estimate method of Rosenblueth is presented as an alternative for the Monte Carlo Simulation method bringing stochastic uncertainty analysis in reach for large thermoelastic problems **Handbook of**

Pipeline Engineering ABCM – Brazilian Society of Mechanical Sciences and Engineering, José Luiz de França Freire, Marcelo Rosa Rennó Gomes, Marcelino Guedes Gomes, 2024-07-25 This Handbook covers a large number of Pipeline Engineering topics ranging from the initial stages of designing constructing operating and managing the integrity of a pipeline to several of their fluid transportation applications such as oil gas derivatives slurry hydrogen and CO₂ Traditional onshore and offshore pipelines are covered as well as chapters on present and future interaction with modern society This Handbook serves as a first reference resource for new readers entering the field but also as a complement to those who are aware of the general principles encompassing areas of pipeline engineering This Handbook has been developed in close cooperation with ABCM the Brazilian Society of Mechanical Sciences and Engineering Chemical Engineering License

Problems and Solutions Dilip K. Das, Rajaram K. Prabhudesai, 2003-09-18 This is a review book for people planning to take the PE exam in Chemical Engineering Prepared specifically for the exam used in all 50 states It features 188 new PE problems with detailed step by step solutions The book covers all topics on the exam and includes easy to use tables charts and formulas It is an ideal desk Companion to DAS's Chemical Engineer License Review It includes sixteen chapters and a short PE sample exam as well as complete references and an index Chapters include the following topical areas material and energy balances fluid dynamics heat transfer evaporation distillation absorption leaching liq liq extraction psychrometry and humidification drying filtration thermodynamics chemical kinetics process control mass transfer and plant safety The ideal study guide this book brings all elements of professional problem solving together in one BIG BOOK Ideal desk reference Answers hundreds of the most frequently asked questions The first truly practical no nonsense problems and solution book for the difficult PE exam Full step by step solutions are included **Real Ultimate Power** Robert Hamburger, 2004 Twenty thousand web fans have already signed up to learn more about the publication of Real Ultimate Power Where the web site

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