

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.

Solution Manual For Heat Transfer Incropera 6th

Frank P. Incropera



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Heat Transfer Jack Philip Holman, 1986 *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 **Scientific**

and Technical Books and Serials in Print, 1984 **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 **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 **Books in Print Supplement**

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The Publishers' Trade List Annual, 1985 *Subject Guide to Books in Print*, 1993 *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 Rosenbluth is presented as an alternative for the Monte Carlo Simulation method bringing stochastic uncertainty analysis in reach for large thermoelastic problems

Solutions Manual to Accompany Fundamentals of Heat and Mass Transfer, 4th Ed. and Introduction to Heat Transfer, 3rd Ed Frank P. Incropera, David P. DeWitt, 1996 **Solutions Manual - Engineering Heat Transfer** William S. Janna, IRA Wolinsky, 2002-11 **Forthcoming Books** Rose Arny, 1997

Mechanical Engineering, 1983-06 *Heat and Mass Transfer* Kurt C. Rolle, 2000 For a junior senior level course in Mechanical Engineering Technology Mechanical Engineering Heat and Mass Transfer or Thermal System Design Helping engineering technology and engineering students learn to design and analyze systems they many encounter in real world practice this comprehensive text provides a solid and rational introduction to the scientific mathematical and empirical methods for treating heat and mass transfer phenomena and supplies the tools necessary for assessing and solving a variety of contemporary engineering problems Graphic and straightforward in approach it combines theory real world applications experimental methods and mathematical rigor to help students see the validity and relevance of concepts highlights the convenience of various numerical methods to analyze more complicated situations involving heat and or mass transfer and helps students understand the relationship of heat and mass transfer to the disciplines of thermodynamics and fluid mechanics **Exergy Analysis for Energy Conversion Systems** Efstathios Michaelides, 2021-04-08 Discover a straightforward and holistic look at energy conversion and conservation processes using the exergy concept with this thorough text Explains the fundamental energy conversion processes in numerous diverse systems ranging from jet engines and nuclear reactors to human bodies Provides examples for applications to practical energy conversion processes and systems that use our naturally occurring energy resources such as fossil fuels solar energy wind geothermal and nuclear fuels With more than one hundred diverse cases and solved examples readers will be able to perform optimizations for a cleaner environment a sustainable energy future and affordable energy generation An essential tool for practicing scientists and engineers who work or do research in the area of energy and exergy as well as graduate students and faculty in chemical engineering mechanical engineering and physics **Solutions Manual to Accompany Thermal Radiation Heat Transfer** Robert Siegel, John Reid Howell, 1972 *Books in Print*, 1991 **Bifurcation Phenomena and Chaos in Thermal Convection** American Society of Mechanical Engineers. Winter Annual Meeting, 1992

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