

Chapter 5

Transient Heat Conduction: Analytical Methods

1 Introduction

Many heat conduction problems encountered in engineering applications involve time as an independent variable. The goal of analysis is to determine the variation of the temperature as a function of time and position $T(\mathbf{x}, t)$ within the heat conducting body. In general, we deal with conducting bodies in a three dimensional Euclidean space in a suitable set of coordinates ($\mathbf{x} \in \mathbb{R}^3$) and the goal is to predict the evolution of the temperature field for future times ($t > 0$).

Here we investigate specifically solutions to selected special cases of the following form of the heat equation

$$\rho C_p \frac{\partial T}{\partial t} = \nabla \cdot (k \nabla T) + g(\mathbf{r})$$

Solutions to the above equation must be obtained that also satisfy suitable initial and boundary conditions.

2 Fundamental Solutions

Transient problems resulting from the effect of instantaneous point, line and planar sources of heat lead to useful fundamental solutions of the heat equation. By considering media of infinite or semi-infinite extent one can conveniently ignore the effect of boundary conditions on the resulting solutions.

Let a fixed amount of energy H_0 (J) be instantaneously released (thermal explosion) at time $t = 0$ at the origin of a three dimensional system of coordinates inside a solid body of infinite extent initially at $T(\mathbf{x}, 0) = T(r, 0) = 0$ everywhere, where $\mathbf{x} = r = \sqrt{x^2 + y^2 + z^2}$. No other thermal energy input exists subsequent to the initial instantaneous release. Assuming constant thermal properties k , ρ and C_p , the heat equation is

$$\frac{\partial T}{\partial t} = \alpha \frac{1}{r^2} \frac{\partial}{\partial r} (r^2 \frac{\partial T}{\partial r})$$

Chapter 5 Transient Heat Conduction Analytical Methods

Satish P. Ketkar



Chapter 5 Transient Heat Conduction Analytical Methods:

Inverse Heat Conduction James V. Beck, Ben Blackwell, Charles R. St. Clair (Jr.), 1985-10-02 Here is the only commercially published work to deal with the engineering problem of determining surface heat flux and temperature history based on interior temperature measurements Provides the analytical techniques needed to arrive at otherwise difficult solutions summarizing the findings of the last ten years Topics include the steady state solution Duhamel's Theorem ill posed problems single future time step and more **Colton** Larry Sheffield, 2004 Take a train to Southern California and you'll pass through Colton Once the home of Gabrielino and Serrano Indians Colton is now known as the Hub City the only place in the United States where the Union Pacific and the Burlington Northern Santa Fe railroads cross Westward bound rail passengers travel through the horseshoe shaped valley along the same trails that served Spanish explorers journeying from Mexico to Monterey in the 1770s The valley's early settlers made use of the rich soil and ready transportation cultivating fruit trees and shipping their harvest north and east Legendary figures have also roamed Colton's streets including the famous Tombstone gunslingers Wyatt Earp and his brother Virgil who was Colton's first marshal and their father Nicholas who served as a justice of the peace and city recorder Over the 150 years of the community's history many have passed through Colton and all have left their mark on this classically Californian town **Analytical Methods in Conduction Heat Transfer** Glen E. Myers, 1998 This book is designed for a one semester graduate course in conduction heat transfer The three major chapters are 3 separation of variables 8 finite differences and 9 finite elements Other topics include Bessel functions Laplace transforms complex combination normalization superposition and Duhamel's theorem **Heat Conduction** M. Necati Özışık, 1993-03-22 This Second Edition for the standard graduate level course in conduction heat transfer has been updated and oriented more to engineering applications partnered with real world examples New features include numerous grid generation for finding solutions by the finite element method and recently developed inverse heat conduction Every chapter and reference has been updated and new exercise problems replace the old **Heating, Ventilating, Air Conditioning Guide**, 1959 **Surface Element Method in Transient Heat Conduction Problems** Bahman Litkouhi, 1982

Fundamentals of the Finite Element Method for Heat and Fluid Flow Roland W. Lewis, Perumal Nithiarasu, Kankanhalli N. Seetharamu, 2004-05-28 Discussing the fundamentals of how to use the finite element method to solve heat transfer and fluid mechanics problems this work explains how to solve various heat transfer problems with different types of boundary conditions **Nuclear Science Abstracts**, 1975 *Basic Heat Transfer* M. Necati Özışık, M. Necati Özışık, 1977 International Series of Monographs in Aeronautics and Astronautics, 1961 Numerical Thermal Analysis Satish P. Ketkar, 1999 This reference for engineers who use computerized thermal analysis tools covers the basics of finite difference finite element and control volume methods The author also presents a hybrid method that combines features of finite element modeling with the computational efficiency of finite difference network solution techniques Annotation

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Boundary Element Method for Heat Conduction E. Divo,Alain J. Kassab,2003 This monograph represents a contribution to integral equation methods It provides the formulation of a boundary only integral equation for field problems governed by variable coefficient partial differential equations Although the authors concentrate on the heat conduction equation the method they propose is general and applicable to a variety of engineering field problems Numerical Methods in Heat Transfer Roland W. Lewis,Kenneth Morgan,1985-09-12 This book consists of expanded and edited versions of selected papers presented at the Conference on Numerical Methods in Thermal Problems held in Seattle in 1983 The papers included cover the current status of numerical methods for thermal problems As well as discussion of the numerical methods now available and in use there is consideration of the many applications of these problems **A Cycle Simulation Program for the Dynamic Operation of a Single Cylinder Direct Injection Diesel** Ning Lei,1988 Heat Conduction and Mass Diffusion Benjamin Gebhart,1993 Containing not only classical material and analysis but using this as a basis for many kinds of application processes which are important in critical technologies this text provides a comprehensive treatment of heat and mass transfer at graduate level Fundamentals of Heat and Mass Transfer Frank P. Incropera,David P. DeWitt,2002 This book provides a complete introduction to the physical origins of heat and mass transfer Contains hundred of problems and examples dealing with real engineering processes and systems New open ended problems add to the increased emphasis on design Plus Incropera DeWitts systematic approach to the first law develops readers confidence in using this essential tool for thermal analysis Polymer Processing Donald G. Baird,Dimitris I. Collias,1998-04-22 Polymer Processing Principles and Design presents the background required to design processes for thermoplastics Often engineers are hired by the polymer industry to develop and design processes for thermoplastics to design polymer processing machinery to develop processes for new polymers and to optimize existing processes However at best they receive only a little training in polymer science and no training in the design of polymer processes This book emphasizes the fundamental concepts that allow the student and the practicing engineer to carry out practical design decisions While most books leave the student with equations only Polymer Processing Principles and Design provides the numerical methods required to solve the equations using the personal computer and easy to use IMSL numerical subroutines and ensures a solid foundation in the principles underlying the design of polymer processing techniques Mathematical Reviews ,2003 **Heat Transfer** 1990 Gad Hetsroni,1990

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web solution total mass of the answer 100 g mass of benzene 30 g therefore mass of carbon tet 100 30 g benzene s molar mass C_6H_6 6 12 6 1 g mol 1 78 g mol 1 hence C_6H_6 s number of moles 30 78 mol 0 3846 mol molar mass of carbon tet CCl_4 1 12 4 355 154 g mol 1

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web jan 30 2020 ans the molality of solution is 1 mol kg 1 or 1 m example 02 11 11 g of urea NH_2CONH_2 was dissolved in 100 g of water calculate the molarity and molality of the solution given n 14 h 1 c 12 o 16 given mass of solute urea 11 11 g mass of solvent water 100 g 0 1 kg to find molarity of solution solution

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web solution moles of CH_3OH 5 5 32 0 17 mole moles of H_2O 40 18 2 2 moles therefore according to the equation mole fraction of CH_3OH 0 17 2 2 0 17 mole fraction of CH_3OH 0 073 to solve more examples on mole fraction formula and practice more question please visit byju s com

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web you may work out the mole fractions on your own problem 5 what is the mass of a sample of a 0 449 molal kbr that contains 2 92 kg of water 1 molality moles solute divided by kilograms solute 0 449 mol kg x 2 92 kg x 1 31108 mol of kbr 2 moles times molar mass equals grams 1 31108 mol 119 0023 g mol 156 g kbr

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web calculate the mass percent mole fraction molality and molarity of hexane C_6H_{14} d 0 660 g cm^3 when it is mixed with heptane C_7H_{16} d 0 684 g cm^3 in a 35 0 55 0 ml ratio assume that the volumes are additive

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web notice that the mole fraction has no units on it and is written as a decimal value do not change it to percent note of caution you could see the term mole percent it is simply the mole fraction multiplied by 100 for example in the problem just below the mole fraction of cinnamic acid is 0 2885 its mole percent would be 28 85

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web jan 8 2022 mol % x 100 the sum of all of the mole percents of a mixture equals 100 mole fraction properties and advantages the mole fraction offers advantages over some of the other units of concentration unlike molarity mole fraction is *worksheet mole fraction ms fleming* - Jun 11 2023

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web converting moles and mass the molecular weight of sodium chloride nacl is 58.44 g/mol how many moles of salt are in 13.8 g of sodium chloride express the answer using 3 significant figures stuck use a hint learn for free about math art computer programming economics physics chemistry biology medicine finance history and more

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web a derivatization that achieves this goes as molarity moles of solute volume of solution in liter moles molarity \times volume in liter mass moles \times molar mass numerical answers 1

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web what is the mole fraction of licl in the solution 11.8 practice problem acetone c 3 h 6 o has a density of 0.791 g/ml and xylene c 8 h 10 has a density of 0.864 g/ml a solution was prepared by mixing acetone and xylene calculate the mole fraction of acetone in a solution if 19.0 ml of acetone was dissolved in 98.4 ml of xylene 7.1

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web since the mole fraction of the o₂ is 0.050 it contributes 0.050 or if you will 5.0% of the total pressure thus total pressure is 0.21 0.050 \times 4.2 atm problem 9 a sample of 1.43 g of helium and an unweighed quantity of o₂ are mixed in a flask at room temperature