

# 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  $k$ ,  $\rho$  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

**E. Divo, Alain J. Kassab**



## Chapter 5 Transient Heat Conduction Analytical Methods:

**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 copyrighted by Book News Inc Portland OR

*American Society of Heating and Ventilating Engineers Guide*, 1960

*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 DeWitt's systematic approach to the first law develops readers confidence in

using this essential tool for thermal analysis      **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      *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      *Heat Transfer* Jack Philip Holman, 1981 Building on its tradition of clarity and numerous examples and problem sets this new edition of Heat Transfer also recognizes the trend toward design and includes the use of computers to assist students in problem solving      *AIAA Journal* American Institute of Aeronautics and Astronautics, 2003

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## **Table of Contents Chapter 5 Transient Heat Conduction Analytical Methods**

1. Understanding the eBook Chapter 5 Transient Heat Conduction Analytical Methods
  - The Rise of Digital Reading Chapter 5 Transient Heat Conduction Analytical Methods
  - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 5 Transient Heat Conduction Analytical Methods
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Chapter 5 Transient Heat Conduction Analytical Methods
  - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 5 Transient Heat Conduction Analytical Methods
  - Personalized Recommendations
  - Chapter 5 Transient Heat Conduction Analytical Methods User Reviews and Ratings

- Chapter 5 Transient Heat Conduction Analytical Methods and Bestseller Lists
- 5. Accessing Chapter 5 Transient Heat Conduction Analytical Methods Free and Paid eBooks
  - Chapter 5 Transient Heat Conduction Analytical Methods Public Domain eBooks
  - Chapter 5 Transient Heat Conduction Analytical Methods eBook Subscription Services
  - Chapter 5 Transient Heat Conduction Analytical Methods Budget-Friendly Options
- 6. Navigating Chapter 5 Transient Heat Conduction Analytical Methods eBook Formats
  - ePub, PDF, MOBI, and More
  - Chapter 5 Transient Heat Conduction Analytical Methods Compatibility with Devices
  - Chapter 5 Transient Heat Conduction Analytical Methods Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Chapter 5 Transient Heat Conduction Analytical Methods
  - Highlighting and Note-Taking Chapter 5 Transient Heat Conduction Analytical Methods
  - Interactive Elements Chapter 5 Transient Heat Conduction Analytical Methods
- 8. Staying Engaged with Chapter 5 Transient Heat Conduction Analytical Methods
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Chapter 5 Transient Heat Conduction Analytical Methods
- 9. Balancing eBooks and Physical Books Chapter 5 Transient Heat Conduction Analytical Methods
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Chapter 5 Transient Heat Conduction Analytical Methods
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 5 Transient Heat Conduction Analytical Methods
  - Setting Reading Goals Chapter 5 Transient Heat Conduction Analytical Methods
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 5 Transient Heat Conduction Analytical Methods
  - Fact-Checking eBook Content of Chapter 5 Transient Heat Conduction Analytical Methods
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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