

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

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

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RJ Shavelson



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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

Heating, Ventilating, Air Conditioning Guide ,1959 **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

Nuclear Science Abstracts ,1975 *International Series of Monographs in Aeronautics and Astronautics* ,1961 *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

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

Basic Heat Transfer M. Necati Özışık,M. Necati Özışık,1977 **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

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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

Chemical Engineering Education ,1987 **Boundary Elements** ,1990 *mcgraw- hill series in mechanical engineering* ,1972 *The Composite Materials Handbook-MIL 17* American Society for Testing and Materials,2002 A government publication that contains extensive information on the design fabrication and use of composite materials It provides guidelines and material properties for polymer organic metal and ceramic matrix composite materials The first three volumes focus on but are not limited to polymeric composites intended for aircraft and aerospace vehicles Metal matrix composites MMC and ceramic matrix composites CMC are covered in volumes 4 and 5

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