



Heat and Concentration Waves: Analysis and Application

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Heat and Concentration Waves: Analysis and Applications describes the behavior of a limited class of waves of temperature or concentration that travels in a continuous medium, which itself is moving. This book is organized into nine chapters that discuss wave equations as solutions to linear differential equations. After briefly dealing with the fundamentals of waves and pulsed, this book goes on discussing the effect of introducing either an impulse or a steady source into a stream of uniform velocity or the so-called one-dimensional flow. The following chapters present some simplest basic equations for parameter determination in a flowing medium. These chapters also describe the pulses at an ideal boundary and the behavior of sine waves at such boundary, including the concept of reflections and the ease with which sine waves overcome the problems of incorporating boundary conditions into an experimental determination. This text further examines the behavior of reservoir phases under time-varying temperature or concentration. A chapter focuses on high-precision experimental measurements of sine waves. The concluding chapter outlines the computational processes, with emphasis on the estimation of experimental errors because of their effect on the reliability of parameter determination. Topics covered in the supplementary texts include the transformation of variables; the evaluation of important integrals; the normal distribution curve; aspects of the Laplace transform; some forms of transport equation common to both heat and mass transfer processes; and the interference of waves.

This book will be of value to physical chemists, chemical and petroleum reservoir engineers, process metallurgists, physiologists, hydrologists, and soil scientists.

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