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Advances in Crystallization
from Solutions Gordon R.

Youngquist 1984

**Convective and Interfacial
Heat Transfer** American

Institute of Chemical Engineers
1971

*The "calculated" Loss-of-
coolant Accident* L. J.

Ybarrondo 1972

**Linear Fractional Diffusion-
Wave Equation for
Scientists and Engineers**

Yuriy Povstenko 2015-07-03

This book systematically presents solutions to the linear time-fractional diffusion-wave equation. It introduces the integral transform technique and discusses the properties of the Mittag-Leffler, Wright, and Mainardi functions that appear in the solutions. The time-nonlocal dependence between the flux and the gradient of the transported quantity with the "long-tail" power kernel results in the time-fractional diffusion-wave equation with the Caputo

fractional derivative. Time-nonlocal generalizations of classical Fourier's, Fick's and Darcy's laws are considered and different kinds of boundary conditions for this equation are discussed (Dirichlet, Neumann, Robin, perfect contact). The book provides solutions to the fractional diffusion-wave equation with one, two and three space variables in Cartesian, cylindrical and spherical coordinates. The respective sections of the book can be used for university courses on fractional calculus, heat and mass transfer, transport processes in porous media and fractals for graduate and postgraduate students. The volume will also serve as a valuable reference guide for specialists working in applied mathematics, physics, geophysics and the engineering sciences.

**Analysis and Design of
Crystallization Processes**

1976

Methods of Fundamental Solutions in Solid

Mechanics Hui Wang
2019-06-06 Methods of Fundamental Solutions in Solid Mechanics presents the fundamentals of continuum mechanics, the foundational concepts of the MFS, and methodologies and applications to various engineering problems. Eight chapters give an overview of meshless methods, the mechanics of solids and structures, the basics of fundamental solutions and radical basis functions, meshless analysis for thin beam bending, thin plate bending, two-dimensional elastic, plane piezoelectric problems, and heat transfer in heterogeneous media. The book presents a working knowledge of the MFS that is aimed at solving real-world engineering problems through an understanding of the physical and mathematical characteristics of the MFS and its applications. - Explains foundational concepts for the method of fundamental solutions (MFS) for the

advanced numerical analysis of solid mechanics and heat transfer - Extends the application of the MFS for use with complex problems - Considers the majority of engineering problems, including beam bending, plate bending, elasticity, piezoelectricity and heat transfer - Gives detailed solution procedures for engineering problems - Offers a practical guide, complete with engineering examples, for the application of the MFS to real-world physical and engineering challenges

University of Michigan Official Publication

University of Michigan 1999
Each number is the catalogue of a specific school or college of the University.

Proceedings of the ...

Bioengineering Conference
1999

[Fundamentals and Applications of Solar Energy](#) 1980

[Food and Bioengineering--](#)
1971

Heat Transfer Aspects of Commercial Power

Generation Kenneth L. Adler

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AIChE Publications Nichigai

Asoshiëtsu 1973

Annual Northeast

Bioengineering Conference

1980

Advances in Bioengineering

Richard G. Buckles 1971

Bioengineering Fundamentals

Abb Saterbak 2007-01-05

Combining engineering principles with technical rigor and a problem-solving focus, this textbook takes a unifying, interdisciplinary approach to the conservation laws that form the foundation of

bioengineering: mass, energy, charge, and momentum.

AIChE Monograph Series

American Institute of Chemical Engineers 1980

Advances in Bioengineering

1982

Fluidization: Fundamental Studies, Solid-fluid

Reactions, and Applications

American Institute of Chemical Engineers 1971

New Process Alternatives in the Forest Products

Industries William James Frederick 1980

AIChE Symposium Series

1983

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