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Proceedings National Academy of Sciences, India 2008

Keller-Box Method and Its Application Kuppalapalle Vajravelu 2014-08-19 Most of the problems arising in science and engineering are nonlinear. They are inherently difficult to solve. Traditional analytical approximations are valid only for weakly nonlinear problems, and often break down for problems with strong nonlinearity. This book presents the current theoretical developments and applications of the Keller-box method to nonlinear problems. The first half of the book addresses basic concepts to understand the theoretical framework for the method. In the second half of the book, the authors give a number of examples of coupled nonlinear problems that have been solved by means of the Keller-box method. The particular area of focus is on fluid flow problems governed by nonlinear equation.

Chemical Engineering Abstracts 1990

Membrane Technology in Separation Science Mihir Purkait 2018-02-19 The book explains fundamental and advanced topics related to the field of membrane science including extensive coverage of material selection, preparation, characterization and applications of various membranes. Explores both preparation and wide range of applications for all possible membranes, contains an exclusive chapter on functionalized membranes and incorporation of stimuli responsive membranes in each type and includes exercise problems after each chapter It also discusses new membrane operations as membrane reactors and membrane contactors

World Congress III of Chemical Engineering 1986

Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.) 1991

Current Programs 1974

Theoretical Chemical Engineering Abstracts 1986

Journal of National Academy of Mathematics, India 1985

Mathematical Methods in Chemical and Biological Engineering Binay Kanti Dutta 2016-11-03

Mathematical Methods in Chemical and Biological Engineering describes basic to moderately advanced mathematical techniques useful for shaping the model-based analysis of chemical and biological engineering systems. Covering an ideal balance of basic mathematical principles and applications to physico-chemical problems, this book presents examples drawn from recent scientific and technical literature on chemical engineering, biological and biomedical engineering, food processing, and a variety of diffusional problems to demonstrate the real-world value of the mathematical methods. Emphasis is placed on the background and physical understanding of the problems to prepare students for future challenging and innovative applications.

Journal of Heat Transfer 2008

Mathematical Modelling of Complex Patterns Through Fractals and Dynamical Systems

Gowrisankar Arulprakash 2024-09-17 This book offers a wide range of interesting correlations beyond the domains of dynamical systems, complex systems, and fractal geometry. Exploring complex systems and their properties using the fractal approaches, this book provides initial solutions for new areas where fractal theory has yet to verify its expertise. Further, the book focusses on the latest scientific interest and illustrates general fractal theory in multidisciplinary areas such as computer science, electronics engineering, electrical engineering, bioengineering, biomedical, quantum physics and fluid dynamics research. This edited book is designed for professionals in the field of mathematics, computer science and physics, and even for non-specialists to help understand the concepts of fractals in nonlinear dynamical systems and complex systems while offering applications for researchers in the pure as well as in the applied background of science and engineering.

Publications United States. National Bureau of Standards 1991

Solutions Manual for Mass Transfer Basmadjian/Diran 2007-03-01

Chinese Physics Letters 2007

Nonlinear Flow Phenomena and Homotopy Analysis Kuppalapalle Vajravelu 2013-07-22 Since most of the problems arising in science and engineering are nonlinear, they are inherently difficult to solve. Traditional analytical approximations are valid only for weakly nonlinear problems and often fail when used for problems with strong nonlinearity. "Nonlinear Flow Phenomena and Homotopy Analysis: Fluid Flow and Heat Transfer" presents the current theoretical developments of the analytical method of homotopy analysis. This book not only addresses the theoretical framework for the method, but also gives a number of examples of nonlinear problems that have been solved by means of the homotopy analysis method. The particular focus lies on fluid flow problems governed by nonlinear differential equations. This book is intended for researchers in applied mathematics, physics, mechanics and engineering. Both Kuppalapalle Vajravelu and Robert A. Van Gorder work at the University of Central Florida, USA.

Solutions Manual for Mass Transfer Laurie Kelly 2004-04

Physics Briefs 1988

Indian Journal of Technology 1980

CJChE 2001-02

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