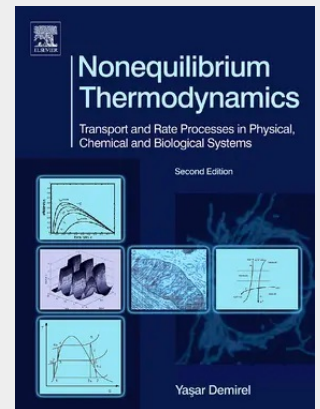


Nonequilibrium Thermodynamics

Transport and Rate Processes in Physical, Chemical and Biological Systems

Natural phenomena consist of simultaneously occurring transport processes and chemical reactions. These processes may interact with each other and lead to instabilities, fluctuations, and evolutionary systems. This book explores the unifying role of thermodynamics in natural phenomena. Nonequilibrium Thermodynamics, Second Edition analyzes the transport processes of energy, mass, and momentum transfer processes, as well as chemical reactions. It considers various processes occurring simultaneously, and provides students with more realistic analysis and modeling by accounting possible interactions between them. This second edition updates and expands on the first edition by focusing on the balance equations of mass, momentum, energy, and entropy together with the Gibbs equation for coupled processes of physical, chemical, and biological systems. Every chapter contains examples and practical problems to be solved. This book will be effective in senior and graduate education in chemical, mechanical, systems, biomedical, tissue, biological, and biological systems engineering, as well as physical, biophysical, biological, chemical, and biochemical sciences.



Auf Anfrage

Nicht mehr lieferbar

Artikelnummer: 9780444530790

Medium: Buch

ISBN: 978-0-444-53079-0

Verlag: Elsevier Science & Technology

Erscheinungstermin: 31.08.2007

Sprache(n): Englisch

Auflage: 2. Auflage 2007

Produktform: Gebunden

Gewicht: 1870 g

Seiten: 754

Format (B x H): 192 x 262 mm

