

Irreversible thermodynamics: theory and applications, 1988, 281 pages, Katrine Seip Fj rland, Tormod Fj rland, 0471917060, 9780471917069, Wiley, 1988

Irreversible thermodynamics is an extension of classical thermodynamics which provides a unified method of examining transport processes and, in particular, cases where simultaneous transport processes need to be studied together. These are common in various fields such as electrochemistry, chemical engineering, biochemistry and biophysics, metallurgy and geology. In this book, the basic equations of irreversible thermodynamics are derived simply, using a minimum of mathematics firstly for very simple systems, and by example extended into more complex cases. The second part of the book then utilizes this theoretical background to discuss the applications in different fields. Important problems are used as case studies to highlight the use of irreversible thermodynamics in, for example, ion selective electrodes, biological systems and frost heave situations. Irreversible thermodynamics is an increasingly important tool in a number of disciplines and this volume will provide an ideal int

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