



A Farewell to Entropy: Statistical Thermodynamics Based on Information (Hardback)

By Arie Ben-Naim

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English . Brand New Book. The principal message of this book is

that thermodynamics and statistical mechanics will benefit from replacing the unfortunate, misleading and mysterious term

entropy with a more familiar, meaningful and appropriate term such as information, missing information or uncertainty. This

replacement would facilitate the interpretation of the driving

force of many processes in terms of informational changes and

dispel the mystery that has always enshrouded entropy. It has

been 140 years since Clausius coined the term entropy ; almost

50 years since Shannon developed the mathematical theory of

information - subsequently renamed entropy . In this book, the

author advocates replacing entropy by information , a term that

has become widely used in many branches of science. The

author also takes a new and bold approach to thermodynamics

and statistical mechanics. Information is used not only as a tool

for predicting distributions but as the fundamental cornerstone

concept of thermodynamics, held until now by the term entropy

. The topics covered include the fundamentals of probability and

information theory; the general concept of information as well

as the particular concept of information...



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Reviews

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