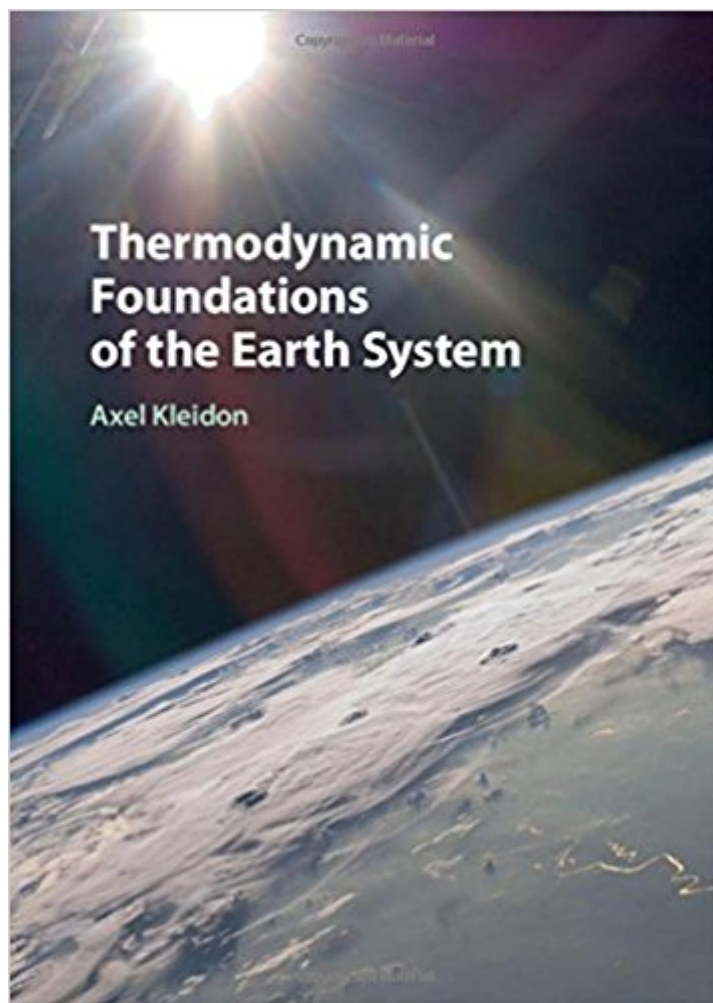


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# Thermodynamic Foundations Of The Earth System



## Synopsis

Thermodynamics sets fundamental laws for all physical processes and is central to driving and maintaining planetary dynamics. But how do Earth system processes perform work, where do they derive energy from, and what are the limits? This accessible book describes how the laws of thermodynamics apply to Earth system processes, from solar radiation to motion, geochemical cycling and biotic activity. It presents a novel view of the thermodynamic Earth system explaining how it functions and evolves, how different forms of disequilibrium are being maintained, and how evolutionary trends can be interpreted as thermodynamic trends. It also offers an original perspective on human activity, formulating this in terms of a thermodynamic, Earth system process. This book uses simple conceptual models and basic mathematical treatments to illustrate the application of thermodynamics to Earth system processes, making it ideal for researchers and graduate students across a range of Earth and environmental science disciplines.

## Book Information

Hardcover: 396 pages

Publisher: Cambridge University Press; 1 edition (March 11, 2016)

Language: English

ISBN-10: 1107029945

ISBN-13: 978-1107029941

Product Dimensions: 6.8 x 0.9 x 9.7 inches

Shipping Weight: 1.8 pounds (View shipping rates and policies)

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