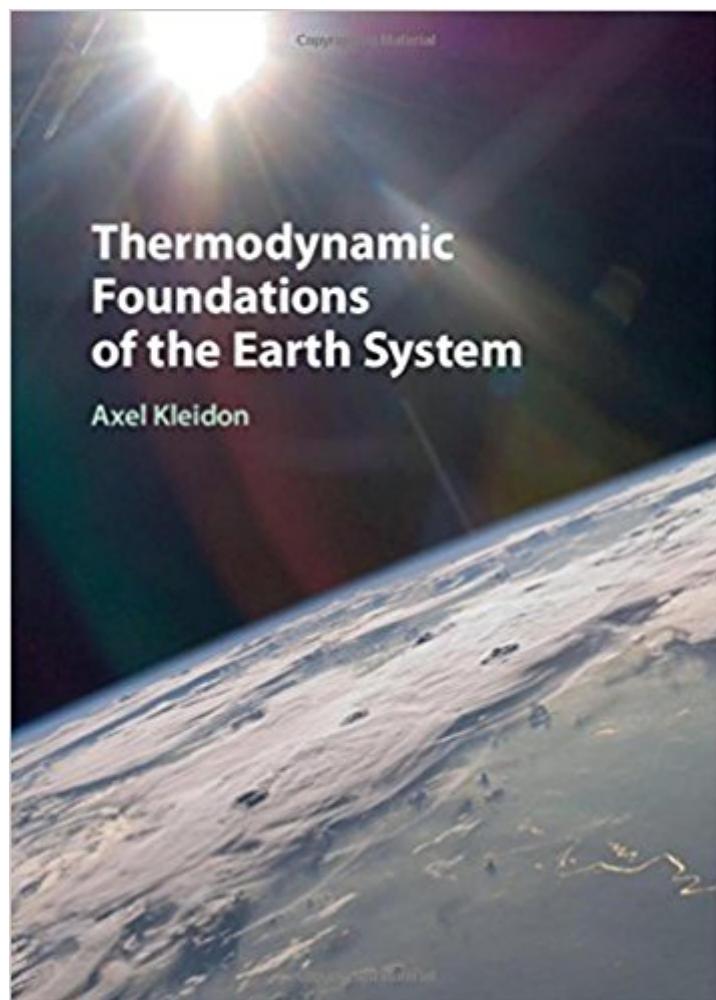


The book was found

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)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #1,009,147 in Books (See Top 100 in Books) #22 in Books > Science & Math > Physics > Entropy #1310 in Books > Textbooks > Science & Mathematics > Environmental Studies #2160 in Books > Textbooks > Science & Mathematics > Earth Sciences

[Download to continue reading...](#)

Thermodynamic Foundations of the Earth System Thermodynamic Properties Of Isomerization Reactions Quantum Thermodynamics: Emergence of Thermodynamic Behavior Within Composite Quantum Systems (Lecture Notes in Physics) Study Guide for Foundations of Maternal-Newborn and Women's Health Nursing, 6e (Murray, Study Guide for Foundations of Maternal-Newborn & Women's Health Nursing) Foundations of Set Theory (Studies in Logic and the Foundations of Mathematics) Principles Of Health Care Management: Foundations For A Changing Health Care System Buildings of Earth and Straw: Structural Design for Rammed Earth and Straw-Bale

Architecture Earth Medicine Earth Food The Stairway to Heaven: Book II of the Earth Chronicles (The Earth Chronicles) Mother Earth's Beauty: Types of Landforms Around Us (For Early Learners): Nature Book for Kids (Children's Earth Sciences Books) Mother Earth's Beauty: Types of Air Around Us (For Early Learners): Nature Book for Kids - Earth Sciences (Children's Weather Books) Earth Memory: Sacred Sites - Doorways into Earth's Mysteries The History of Middle-Earth: The Unofficial Guide to the Languages, People, and Books of Middle-Earth Twelfth Planet: Book I of the Earth Chronicles (The Earth Chronicles) Ley Lines and Earth Energies: A Groundbreaking Exploration of the Earth's Natural Energy and How It Affects Our Health The Good Earth: Introduction to Earth Science Love Is in the Earth - Mineralogical Pictorial: Treasures of the Earth The lost realms: Book IV of the Earth Chronicles (The Earth Chronicles) Ancient Earth, Ancient Skies: The Age of Earth and its Cosmic Surroundings Zero 'g': Earth Without Gravity (Dystopian Earth Book 1)

[Dmca](#)