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THE LAWS OF THERMODYNAMICS

A Very Short Introduction

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The Laws Of Thermodynamics A Very Short Introduction

Daniela Niemeyer



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Introduction Peter Atkins, 2015-02-26 Most people remember chemistry from their schooldays as largely incomprehensible a subject that was fact rich but understanding poor smelly and so far removed from the real world of events and pleasures that there seemed little point except for the most introverted in coming to terms with its grubby concepts spells recipes and rules Peter Atkins wants to change all that In this Very Short Introduction to Chemistry he encourages us to look at chemistry anew through a chemist's eyes in order to understand its central concepts and to see how it contributes not only towards our material comfort but also to human culture Atkins shows how chemistry provides the infrastructure of our world through the chemical industry the fuels of heating power generation and transport as well as the fabrics of our clothing and furnishings By considering the remarkable achievements that chemistry has made and examining its place between both physics and biology Atkins presents a fascinating clear and rigorous exploration of the world of chemistry its structure core concepts and exciting contributions to new cutting edge technologies ABOUT THE SERIES The Very Short Introductions series from

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Philosophy of Biology: A Very Short Introduction Samir Okasha, 2019-11-28

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The laws of thermodynamics drive everything that happens in the universe. From the sudden expansion of a cloud of gas to the cooling of hot metal, and from the unfurling of a leaf to the course of life itself, everything is directed and constrained by four simple laws. They establish fundamental concepts such as temperature and heat, and reveal the arrow of time and even the nature of energy itself. Peter Atkins' powerful and compelling introduction explains what the laws are and how they work, using accessible language and virtually no mathematics. Guiding the reader from the Zeroth Law to the Third Law, he introduces the fascinating concept of entropy and how it not only explains why your desk tends to get messier, but also how its unstoppable rise constitutes the engine of the universe.

Introduction to the Thermodynamics of Materials David R. Gaskell, David E. Laughlin, 2024-07-23

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The Beauty of Chemistry Philip Ball,2021-05-11 A visual tour through the under appreciated chemical beauty that surrounds us with astonishing photographs of the scientific processes that create snowflakes bubbles flames and other natural wonders WIRED Chemistry is not just about microscopic atoms doing inscrutable things it is the process that makes flowers and galaxies We rely on it for bread baking vegetable growing and producing the materials of daily life In stunning images and illuminating text this book captures chemistry as it unfolds Using such techniques as microphotography time lapse photography and infrared thermal imaging The Beauty of Chemistry shows us how chemistry underpins the formation of snowflakes the science of champagne the colors of flowers and other wonders of nature and technology We see the marvelous configurations of chemical gardens the amazing transformations of evaporation distillation and precipitation heat made visible and more

Energy Democracies for Sustainable Futures Majia Nadesan,Martin J. Pasqualetti,Jennifer Keahey,2022-09-29 Energy Democracies for Sustainable Futures explores how our dominant carbon and nuclear energy

assemblages shape conceptions of participation risk and in securities and how they might be reengineered to deliver justice and democratic participation in transitioning energy systems Chapters assess the economies geographies and politics of current and future energy landscapes exposing how dominant assemblages composed of technologies strategies knowledge and authorities change our understanding of security and risk and how they these shared understandings are often enacted uncritically in policy Contributors address integral relationships across the production and government of material and human energies and the opportunities for sustainable and democratic governance In addition the book explores how interest groups advance idealized energy futures and energy imaginaries The work delves into the role that states market organizations and civil society play in envisioned energy change It assesses how risks and security are formulated in relation to economics politics ecology and human health It concludes by integrating the relationships between alternative energies and governance strategies including issues of centralization and decentralization suggesting approaches to engineer democracy into decision making about energy assemblages Explores descriptive and normative relationships between energy and democracy Reviews how changing energy demand and governance threaten democracies and democratic institutions Identifies what participative energy transformations look like when paired with energy security Reviews what happens to social economic and political infrastructures in the process of achieving sustainable and democratic transitions

The Failures of Mathematical Anti-Evolutionism Jason Rosenhouse,2022-05-12 This book refutes anti scientific superficially mathematical arguments used to support anti evolutionism in language accessible for both lay and professional audiences

Psychiatry: A Very Short Introduction Tom Burns,2006-09-21 With diagnoses based on thoughts behaviour and emotions psychiatry has always aroused strong feelings This book explains what psychiatry is and what it does It looks at the major illnesses and how they are treated and outlines a brief history of the subject focusing on the controversies that have inevitably surrounded it from political abuse to the very existence or otherwise of both mental illness and normality

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