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Autore	Berry R. Stephen
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Nota di contenuto	Front matter Contents Preface One. What Is Thermodynamics? The First Law Two .Why We Can't Go Back in Time The Second and Third Laws Three. How Did Classical Thermodynamics Come to Exist? Four. How Do We Use (and Might We Use) Thermodynamics? Five. How Has Thermodynamics Evolved? Six. How Can We Go Beyond the Traditional Scope of Thermodynamics? Seven. What Can Thermodynamics Teach Us About Science More Generally? Index
Sommario/riassunto	A short and entertaining introduction to thermodynamics that uses real-world examples to explain accessibly an important but subtle scientific theory A romantic description of the second law of thermodynamics is that the universe becomes increasingly disordered. But what does that actually mean? Starting with an overview of the three laws of thermodynamics, MacArthur "genius grant"; winner R. Stephen Berry explains in this short book the fundamentals of a fundamental science. Readers learn both the history of thermodynamics, which began with attempts to solve everyday engineering problems, and ongoing controversy and unsolved puzzles. The exposition, suitable for both students and armchair physicists, requires no previous knowledge of the subject and only the simplest mathematics, taught as needed. With this better understanding of one science, readers also gain an appreciation of the role of research in science, the provisional nature of scientific theory, and the ways

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scientific exploration can uncover fundamental truths. Thus, from a
science of everyday experience, we learn about the nature of the
 universe.