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Sommario/riassunto Many people, professionals and non-professionals alike, recognize that

it is of critical importance to solve global energy and environmental

issues. For this purpose, it is essential to have a scientific

understanding of what is meant by the "energy" issue and the "environmental" issue. The concept of "exergy" is a scientific concept that exactly fits. The concept of 'energy' is a scientifically-well established concept, namely 'to be conserved'. Then the question is: what is really consumed? Exergy: Theory and Applications in the Built Environment is dedicated to answer this fundamental question by discussing the theory of "exergy" and by demonstrating its use extensively to describe a variety of systems in particular for builtenvironmental conditioning. Our immediate environmental space works within the flow of energy and matter in an "exergy-entropy" process, and the built environment can be designed with these energy and environmental issues in mind. Exergy: Theory and Applications in the Built Environment introduces readers who are not familiar with thermodynamics to the concept of exergy with a variety of discussions on the built-environmental space such as heating, cooling, lighting, and others. Readers, including students, researchers, planners, architects and engineers, will obtain a better picture of a sustainable built environment.