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lecture5 thermodynamics 1introduction thermodynamicsisthestudyofheatandtemperature onethingthatmakesthermodynamics hard andgenerallyunpopular isallthedamnvariables everythingisrelatedandit soften toughtokeepstraightwhatisanindependentandwhatisadependentvariable wewilldoour chemical thermodynamics is the study of the interrelation of energy with chemical reactions or with a physical change of state within the confines of the laws of thermodynamics the primary objective of chemical thermodynamics is determining the spontaneity of a given transformation thermodynamics in physics is a branch that deals with heat work and temperature and their relation to energy radiation and physical properties of matter to be specific it explains how thermal energy is converted to or from other forms of energy and how matter is affected by this process thermal energy is the energy that comes from heat the first law of thermodynamics the laws of thermodynamics are deceptively simple to state but they are far reaching in their consequences the first law asserts that if heat is recognized as a form of energy then the total energy of a system plus its surroundings is conserved in other words the total energy of the universe remains constant dec 1 2022 thermodynamics science of the relationship between heat work temperature and energy in broad terms thermodynamics deals with the transfer of energy from one place to another and from one form to another the key concept is that heat is a form of energy corresponding to a definite amount of mechanical work laws of thermodynamics temperature kinetic theory and the ideal gas law learn thermodynamics part 1 molecular theory of gases thermodynamics part 2 ideal gas law thermodynamics part 3 kelvin scale and ideal gas law example thermodynamics part 4 moles and the ideal gas law thermodynamics part 5 molar ideal gas law problem the laws of thermodynamics are a set of scientific laws which define a group of physical quantities such as temperature energy and entropy that characterize thermodynamic systems in thermodynamic equilibrium the laws also use various parameters for thermodynamic processes such as thermodynamic work and heat and establish relationships between them may 6 2019 thermodynamics is the field of physics that deals with the relationship between heat and other properties such as pressure density temperature etc in a substance specifically thermodynamics focuses largely on how a heat transfer is related to various energy changes within a physical system undergoing a thermodynamic process thermodynamics in biology refers to the study of energy transfers that occur in molecules or collections of molecules when we are discussing thermodynamics the particular item or collection of items that we re interested in which could be something as small as a cell or as large as an ecosystem is called the system while everything that s not included in the system may 13 2021 thermodynamics is a branch of physics which deals with the energy and work of a system it was born in the 19th century as scientists were first discovering how to build and operate steam engines thermodynamics deals only with the large scale response of a system which we can observe and measure in experiments