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The concept of energy conservation as expressed by an energy balance equation is central to chemical engineering calculations. Similar to mass balances studied previously, a balance on energy is crucial to solving many problems. _____ System A "system" is an object or a collection of objects that an analysis is done on. ...

Chapter 7 – Energy and Energy Balances

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The "mass balance" is unquestionably the most common class of problems for the process engineer. Closely related, mathematically, is the "heat balance". Every laboratory test requires a mass balance to describe the results. Mass balance calculations can be subdivided into several sub-categories based on whether the results are time dependant or not and depending on whether the input ...