

Thermodynamics (Classical) for Biological Systems

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Self Evaluation Questions

The students can use the following questions to check their understanding of the material presented in the course. If something is unclear, they can go back to the relevant lectures and clarify themselves. The questions are arranged, module-wise, including the introductory module.

Module 1 Review

1. What is the difference between the terms 'system' and 'surroundings'?
2. Compare and contrast 'System' and 'Control Volume'?
3. What are the various kinds of systems? How are they different from each other?
4. How can one decide whether a property is 'intensive'?
5. When does a process become reversible? Does a reversible process exist in practical terms?
6. What are the essential differences between a P-T diagram and a P-V diagram for a pure substance?
7. What is the zeroth law of Thermodynamics? What is its consequence in terms of an useful parameter?
8. What are the first and second laws of Thermodynamics? What are their consequences in terms of useful parameters?
9. What are the limitations of Classical Thermodynamics?