

Index

- adiabatic, 10
- Avogadro number, 6
- Boltzmann constant, 6
- Carnot cycle, 12
- chemical potential, 3
- cluster expansion, 31
- code, 56
- convex function, 6
- critical exponent, 39
- Curie temperature, 39
- cycle, 10
- duality in Ising model, 47
- Dulong and Petit (law of), 6
- efficiency, 11
- engine, 11
- ensemble, 27
- enthalpy, 9
- entropy, 3
 - of classical gas, 16
 - relative, 53
 - Shannon, 52
- essential domain, 7
- Fisher convergence, 22
- free energy, 8
- grand-canonical potential, 9
- heat, 4
- heat capacity C_p , 6
- heat capacity C_V , 6
- heat pump, 12
- Helmholtz free energy, 8
- ideal gas law, 6
- information gain, 51
- information size, 51
- Ising model, 39
- Kraft inequality, 57
- Kramers-Wannier duality, 47
- Laplace principle, 30
- law of Dulong and Petit, 6
- Legendre transform, 7
- Manon Lescaut, 54
- partition function, 27
- Peierls argument, 45
- pressure, 3
- process, 10
- quasistatic, 2, 10
- relative entropy, 53
- reversible, 10
- second law of thermodynamics, 3
- Shannon entropy, 52
- stable potential, 17
- Stirling inequality, 18
- temperature, 3
- thermodynamic limit, 17
- thermodynamic potential, 8
- van der Waals equation of state, 34
- work, 4