

NJIT library/ Databases(find+read articles)/Physics/INSPEC
Search: Thermo*/from Apr.2000 to Jan.2006/Journal paper/ American Journal of Ph
Result: 65 citations

Citation 1-----

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Title: Thermodynamic derivations of the mechanical equilibrium conditio
fluid
surfaces: Young's and Laplace's equations
Author: Roura, P.; Mater. Sci. & Thermodynamics, Univ. of Girona, Catalo
PUBLICATION: American Journal of Physics, vol.73, no.12, pp. 1139-47, 0002-95
American Assoc. Phys. Teachers through AIP Dec. 2005
32 Refs..

Citation 2-----

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Title: Student understanding of the ideal gas law, Part II: a microscop
perspective
Author: Kautz, C.H.; Heron, P.R.L.; Shaffer, P.S.; McDermott, L.C.;Dept.
Phys.,Univ.
of Washington, Seattle, WA, USA
PUBLICATION: American Journal of Physics , vol.73, no.11, pp. 1064-71, 0002-9
American Assoc. Phys. Teachers through AIP Nov. 2005
20 Refs..

Citation 3-----

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Title: Understanding temperature and chemical potential using computer
Author: Tobochnik, J.; Gould, H.; Machta, J.;Dept. of Phys., Kalamazoo C
USA
PUBLICATION: American Journal of Physics, vol.73, no.8, pp. 708-16 0002-9505
American Assoc. Phys. Teachers through AIP Aug. 2005
11 Refs..

Citation 4-----

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Title: Light with nonzero chemical potential
Author: Herrmann, F.; Wurfel, P.;Abteilung fur Didakfik der Physik, Univ
Karlsruhe,
Germany
PUBLICATION: American Journal of Physics, vol.73, no.8, pp. 717-21 0002-9505
American Assoc. Phys. Teachers through AIP Aug. 2005
18 Refs..

Citation 5-----

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Title: Master equation approach to the non-equilibrium negative specific
the
glass transition
Author: Bisquert, J.;Dept. de Ciencies Exp., Univ. Jaume, Castello, Spai
PUBLICATION: American Journal of Physics, vol.73, no.8, pp. 735-41 0002-9505
American Assoc. Phys. Teachers through AIP Aug. 2005
41 Refs..

Citation 6-----

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Title: Game theory and physics
Author: Hauert C.; Szabo G.;Dents of Math & Zoology Univ of British

Title: Free energies in the presence of electric and magnetic fields
Author: Narayan, O.; Young, A.P.;Dept. of Phys., Univ. of California, Sa
CA,
USA
PUBLICATION: American Journal of Physics, vol.73, no.4, pp. 293-8 0002-9505
American Assoc. Phys. Teachers through AIP April 2005
19 Refs..

Citation 8-----

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Title: The mechanical equivalent of heat and the first law
Author: Canagaratna, S.G.;Dept. of Chem., Ohio Northern Univ., Ada, OH, I
PUBLICATION: American Journal of Physics, vol.73, no.4, pp. 299-301 0002-9505
American Assoc. Phys. Teachers through April 2005
18 Refs..

Citation 9-----

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Title: Electrical conductivity in granular media and Branly's coherer: :
experiment
Author: Falcon, E.; Castaing, B.; Lab. de Phys., Ecole Normale Superieure
Lyon, France
PUBLICATION: American Journal of Physics, vol.73, no.4, pp. 302-7 0002-9505
American Assoc. Phys. Teachers through AIP April 2005
26 Refs..

Citation 10-----

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Title: Radiation thermodynamics with applications to lasing and fluores
cooling
Author: Mungan, C.E.;Dept. of Phys., U.S. Naval Acad., Annapolis, MD, US
PUBLICATION: American Journal of Physics, vol.73, no.4, pp. 315-22 0002-9505
American Assoc. Phys. Teachers through AIP April 2005
31 Refs..

Citation 11-----

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Title: A scaling approach to ideal quantum gases
Author: Nattermann, T.;Inst. fur Theor. Phys., Univ., Koln, Germany
PUBLICATION: American Journal of Physics, vol.73, no.4, pp. 349-56 002-9505
American Assoc. Phys. Teachers through AIP April 2005
35 Refs..

Citation 12-----

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Title: An improved apparatus for demonstrating first- and second-order]
transitions: ball bearings on a rotating hoop
Author: Mancuso, R.V.; Schreiber, G.A.;Dept. of Phys., State Univ. of Ne
Brockport, NY, USA
PUBLICATION: American Journal of Physics, vol.73, no.4, pp. 366-7 0002-9505
American Assoc. Phys. Teachers through AIP April 2005
3 Refs..

Citation 13-----

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Title: Einstein oscillators that impede thermal transport
Author: Hermann, R.P.; Grandjean, F.; Long, G.J.;Dept. of Phys., Univ. o
Sart-Tilman Belgium

Author: Opatrny, T.;Dept. of Phys., Texas A&M Univ., College Station, TX
PUBLICATION: American Journal of Physics, vol.73, no.1, pp. 63-8 0002-9505
American Assoc. Phys. Teachers through AIP Jan. 2005
14 Refs..

Citation 15-----

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Title: Investigation of students' reasoning regarding heat, work, and the
law
of thermodynamics in an introductory calculus-based general physics
Author: Meltzer, D.E.;Dept. of Phys. & Astron., Iowa State Univ., Ames,
PUBLICATION: American Journal of Physics, vol.72, no.11, pp. 1432-46 0002-9505
American Assoc. Phys. Teachers through AIP Nov. 2004
37 Refs..

Citation 16-----

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Title: A new approach to Monte Carlo simulations in statistical physics
Landau
sampling
Author: Landau, D.P.; Shan-Ho Tsai; Exler, M.;Center for Simulational Physics
of
Georgia, Athens, GA, USA
PUBLICATION: American Journal of Physics, vol.72, no.10, pp. 1294-302 0002-9505
American Assoc. Phys. Teachers through AIP Oct. 2004
57 Refs..

Citation 17-----

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Title: Time-reversal breaking of acoustic waves in a cavity
Author: Bertaix, V.; Garson, J.; Quieffin, N.; Catheline, S.; Derosny, J
M.;Lab.
Ondes et Acoustique, Univ. Paris, France
PUBLICATION: American Journal of Physics, vol.72, no.10, pp. 1308-11 0002-9505
American Assoc. Phys. Teachers through AIP Oct. 2004
6 Refs..

Citation 18-----

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Title: Socrates, Fermi, and the second law of thermodynamics
Author: Grimvall, G.;Dept. of Phys., R. Inst. of Technol., Stockholm, Sweden
PUBLICATION: American Journal of Physics, vol.72, no.9, pp. 1145-6 0002-9505
American Assoc. Phys. Teachers through AIP Sept. 2004
4 Refs..

Citation 19-----

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Title: Specific heat of an ideal Bose gas above the Bose condensation temperature
Author: Wang, F.Y.-H.;Dept. of Phys., Columbia Univ., New York, NY, USA
PUBLICATION: American Journal of Physics, vol.72, no.9, pp. 1193-4 0002-9505
American Assoc. Phys. Teachers through AIP Sept. 2004
9 Refs..

Citation 20-----

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Title: Neutron stars for undergraduates
Author: Silbar, R.R.; Reddy, S.;Theor. Div., Los Alamos Nat. Lab., NM, USA
PUBLICATION: American Journal of Physics, vol.72, no.7, pp. 892-905 0002-9505
American Assoc. Phys. Teachers through AIP July 2004

20 Refs..

Citation 22-----

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Title: Clouds in planetary atmospheres: a useful application of the Cla
Clapeyron
equation
Author: Sanchez-Lavega, A.; Perez-Hoyos, S.; Hueso, R.; Pais Vasco Univ.,
Spain
PUBLICATION: American Journal of Physics, vol.72, no.6, pp. 767-74 0002-9505
American Assoc. Phys. Teachers through AIP June 2004
17 Refs..

Citation 23-----

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Title: A dunking bird of the second kind
Author: Abraham, N.; Palffy-Muhoray, P.; Western Reserve Acad., Hudson, O
PUBLICATION: American Journal of Physics, vol.72, no.6, pp. 782-5 0002-9505
American Assoc. Phys. Teachers through AIP June 2004
27 Refs..

Citation 24-----

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Title: A simple approach to Anderson localization in one-dimensional di
lattices
Author: Dominguez-Adame, F.; Malyshev, V.A.; Dept. de Fisica de Mater., U
Complutense,
Madrid, Spain
PUBLICATION: American Journal of Physics, vol.72, no.2, pp. 226-30 0002-9505
American Assoc. Phys. Teachers through AIP Feb. 2004
23 Refs..

Citation 25-----

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Title: Thermodynamics of black holes in a finite box
Author: Custodio, P.S.; Horvath, J.E.; Inst. de Astronomia, Sao Paulo, Br
PUBLICATION: American Journal of Physics, vol.71, no.12, pp. 1237-41 0002-950
American Assoc. Phys. Teachers through AIP Dec. 2003
17 Refs..

Citation 26-----

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Title: Comment on 'phase transition-like behavior in a low-pass filter,
Krivine
and A. Lesne [Am. J. Phys. 71 (1), 31-33 (2003)]
Author: Uretsky, J.L.; High Energy Phys. Div., Argonne Nat. Labs., IL, US
PUBLICATION: American Journal of Physics, vol.71, no.12, pp. 1320 0002-9505
American Assoc. Phys. Teachers through AIP Dec. 2003
5 Refs..

Citation 27-----

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Title: Heat capacity in bits
Author: Fraundorf, P.; Dept. of Phys. & Astron., Univ. of Missouri, St. L
USA
PUBLICATION: American Journal of Physics, vol.71, no.11, pp. 1142-51 0002-950
American Assoc. Phys. Teachers through AIP Nov 2003

Ontario, London, Ont., Canada
PUBLICATION: American Journal of Physics, vol.71, no.10, pp. 969-78 0002-9505
American Assoc. Phys. Teachers through AIP Oct. 2003
18 Refs..

Citation 29-----

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Title: Landau theory of domain walls for one-dimensional asymmetric potentials
Author: Sanati, M.; Saxena, A.; Dept. of Phys., Texas Tech Univ., Lubbock
PUBLICATION: American Journal of Physics, vol.71, no.10, pp. 1005-12 0002-9505
American Assoc. Phys. Teachers through AIP Oct. 2003
38 Refs..

Citation 30-----

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Title: Thermodynamics of the harmonic oscillator: Wien's displacement law and the
Planck spectrum
Author: Boyer, T.H.; Dept. of Phys., City Univ. of New York, NY, USA
PUBLICATION: American Journal of Physics, vol.71, no.9, pp. 866-70 0002-9505
American Assoc. Phys. Teachers through AIP Sept. 2003
13 Refs..

Citation 31-----

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Title: The critical temperature of two-dimensional and three-dimensional Ising
models
Author: Liu, B.; Gitterman, M.; Dept. of Phys., New York Univ., NY, USA
PUBLICATION: American Journal of Physics, vol.71, no.8, pp. 806-8 0002-9505
American Assoc. Phys. Teachers through AIP Aug. 2003
11 Refs..

Citation 32-----

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Title: Modeling heat flow in a thermos
Author: Karls, M.A.; Scherschel, J.E.; Dept. of Math. Sci., Ball State Univ.,
Muncie,
IN, USA
PUBLICATION: American Journal of Physics, vol.71, no.7, pp. 678-83 0002-9505
American Assoc. Phys. Teachers through AIP July 2003
19 Refs..

Citation 33-----

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Title: A simplified thermoacoustic engine demonstration
Author: Jeromen, A.; Inst. of Math., Univ. of Ljubljana, Slovenia
PUBLICATION: American Journal of Physics, vol.71, no.5, pp. 496-9 0002-9505
American Assoc. Phys. Teachers through AIP May 2003
3 Refs..

Citation 34-----

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Title: A comprehensive treatment of classical nucleation in a supercooled
superheated fluid
Author: Gunther, L.; Dept. of Phys. & Astron., Tufts Univ., Medford, MA, USA
PUBLICATION: American Journal of Physics, vol.71, no.4, pp. 351-7 0002-9505
American Assoc. Phys. Teachers through AIP April 2003
13 Refs..

Citation 36-----
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Title: Resource letter: OTS-1: observations and theory of supernovae
Author: Wheeler, J.C.;Dept. of Astron., Univ. of Texas, Austin, TX, USA
PUBLICATION: American Journal of Physics, vol.71, no.1, pp. 11-22 0002-9505
American Assoc. Phys. Teachers through AIP Jan. 2003

Citation 37-----
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Title: Phase transition-like behavior in a low-pass filter
Author: Krivine, H.; Lesne, A.;Lab. de Phys. Theor. et Modeles Statistiq
France
PUBLICATION: American Journal of Physics, vol.71, no.1, pp. 31-3 0002-9505
American Assoc. Phys. Teachers through AIP Jan. 2003
13 Refs..

Citation 38-----
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Title: Tabletop thermoacoustic refrigerator for demonstrations
Author: Russell, D.A.; Weibull, P.;Sci. & Math. Dept., Kettering Univ., :
USA
PUBLICATION: American Journal of Physics, vol.70, no.12, pp. 1231-3 0002-9505
American Assoc. Phys. Teachers through AIP Dec. 2002
8 Refs..

Citation 39-----
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Title: Efficiency of nonideal Carnot engines with friction and heat loss
Author: Rebhan, E.;Inst. fur Theor. Phys., Heinrich-Heine-Univ., Dusseld
Germany
PUBLICATION: American Journal of Physics, vol.70, no.11, pp. 1143-9 0002-9505
American Assoc. Phys. Teachers through AIP Nov. 2002
4 Refs..

Citation 40-----
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Title: Experimental estimation of the band gap in silicon and germanium
temperature-voltage curve of diode thermometers
Author: Precker, J.W.; da Silva, M.A.;Dept. de Fisica, Univ. Fed. de Camp
Grande,
Brazil
PUBLICATION: American Journal of Physics, vol.70, no.11, pp. 1150-3 0002-9505
American Assoc. Phys. Teachers through AIP Nov. 2002
10 Refs..

CitatiOn 41-----
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Title: Averaging of harmonic physical fields over an annular region enc.
field
sources
Author: Lin Li;Dept. of Radiol., Pennsylvania Univ., Philadelphia, PA, U
PUBLICATION: American Journal of Physics, vol.70, no.10, pp. 1029-33 0002-9505
American Assoc. Phys. Teachers through AIP Oct. 2002
14 Refs..

Citation 42-----
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Citation 43-----

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Title: On the experimental values of the water surface tension used in textbooks
Author: Pellicer, J.; Garcia-Morales, V.; Guanter, L.; Hernandez, M.J.; Dept. de Termodinamica, Univ. de Valencia, Burjassot, Spain
PUBLICATION: American Journal of Physics, vol.70, no.7, pp. 705-9 0002-9505
American Assoc. Phys. Teachers through AIP July 2002
13 Refs..

Citation 44-----

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Title: Sound speed without entropy
Author: Morris, S.J.S.;Dept. of Mech. Eng., California Univ., Berkeley, CA
PUBLICATION: American Journal of Physics, vol.70, no.5, pp. 495-7 0002-9505
American Assoc. Phys. Teachers through AIP May 2002
13 Refs..

Citation 45-----

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Title: Getting more from pushing less: Negative specific heat and nonequilibrium steady states
Author: Zia, R.K.P.; Praestgaard, E.L.; Mouritsen, O.G.;Dept. of Phys., Blacksburg, VA, USA
PUBLICATION: American Journal of Physics, vol.70, no.4, pp. 384-92 0002-9505
American Assoc. Phys. Teachers through AIP April 2002
10 Refs..

Citation 46-----

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Title: Note on 'Comment on 'A check of Prigogine's theorem of minimum production in a rod in a nonequilibrium stationary state,' by Ir Danielewicz-Ferchmin and A. Ryszard Ferchmin' [Am. J. Phys. 68 965 (2000)], by Peter Palffy-Muhoray [Am. J. Phys. 69 (7), 825-826 (1991)]
Author: Hoover, Wm.G.;Dept. of Appl. Sci., Univ. of California Davis, CA
PUBLICATION: American Journal of Physics, vol.70, no.4, pp. 452-4 0002-9505
American Assoc. Phys. Teachers through AIP April 2002
5 Refs..

Citation 47-----

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Title: A statistical development of entropy for the introductory physics
Author: Schoepf, D.C.;Dept. of Phys., Bucknell Univ., Lewisburg, PA, USA
PUBLICATION: American Journal of Physics, vol.70, no.2, pp. 128-36 0002-9505
American Assoc. Phys. Teachers through AIP Feb. 2002
15 Refs..

Citation 48-----

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Title: Student understanding of the first law of thermodynamics: Relation to the adiabatic compression of an ideal gas
Author: Loverude, M.E.; Kautz, C.H.; Heron, P.R.L.;Dept. of Phys., Washington State Univ., Seattle, WA, USA
PUBLICATION: American Journal of Physics, vol.70, no.2, pp. 137-48 0002-9505
American Assoc. Phys. Teachers through AIP Feb. 2002

PUBLICATION: American Journal of Physics, vol.70, no.1, pp. 42-7 0002-9505
American Assoc. Phys. Teachers through AIP Jan. 2002
26 Refs..

Citation 50-----

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Title: Partition functions and symmetric polynomials
Author: Schmidt, H.-J.; Schnack, J.; Osnabruck Univ., Germany
PUBLICATION: American Journal of Physics, vol.70, no.1, pp. 53-7 0002-9505
American Assoc. Phys. Teachers through AIP Jan. 2002
30 Refs..

Citation 51-----

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Title: Application of thermodynamic extremum principles
Author: Fernandez-Pineda, C.; Velasco, S.; Dept. de Fisica Aplicada I, Co
Univ., Madrid, Spain
PUBLICATION: American Journal of Physics, vol.69, no.11, pp. 1160-5 0002-9505
American Assoc. Phys. Teachers through AIP Nov. 2001
25 Refs..

Citation 52-----

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Title: Resource Letter: ScL-1: Scaling laws
Author: Wiesenfeld, K.; Sch. of Phys., Georgia Inst. of Technol., Atlanta
PUBLICATION: American Journal of Physics, vol.69, no.9, pp. 938-42 0002-9505
American Assoc. Phys. Teachers through AIP Sept. 2001
58 Refs..

Citation 53-----

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Title: Carnot cycle for photon gas?
Author: Lee, M.H.; Dept. of Phys. & Astron., Georgia Univ., Athens, GA, U
PUBLICATION: American Journal of Physics, vol.69, no.8, pp. 874-8 0002-9505
American Assoc. Phys. Teachers through AIP Aug. 2001
17 Refs..

Citation 54-----

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Title: Comment on ; °A check of Prigogine's theorem of minimum entropy p
in a
rod in a nonequilibrium stationary state; ± by Irena Danielewicz-
and
A. Ryszard Ferchmin [Am. J. Phys. 68 (10), 962-965 (2000)]
Author: Palffy-Muhoray, P.; Liquid Crystal Inst., Kent State Univ., OH, U
PUBLICATION: American Journal of Physics, vol.69, no.7, pp. 825-6 0002-9505
American Assoc. Phys. Teachers through AIP July 2001
3 Refs..

Citation 55-----

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Title: The elusive chemical potential
Author: Baierlein, R.; Dept. of Phys. & Astron., Northern Arizona Univ.,
AZ, USA
PUBLICATION: American Journal of Physics, vol.69, no.4, pp. 423-34 0002-9505
American Assoc. Phys. Teachers through AIP April 2001
42 Refs..

Citation 57-----
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Title: How to teach statistical thermal physics in an introductory phys.
Author: Koo-Chul Lee;Dept. of Phys., Seoul Nat. Univ., South Korea
PUBLICATION: American Journal of Physics, vol.69, no.1, pp. 68-75 0002-9505
American Assoc. Phys. Teachers through AIP Jan. 2001
7 Refs..

Citation 58-----
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Title: Insight into entropy
Author: Styer, D.F.;Dept. of Phys., Oberlin Coll., OH, USA
PUBLICATION: American Journal of Physics, vol.68, no.12, pp. 1090-6 0002-9505
American Assoc. Phys. Teachers through AIP Dec. 2000
34 Refs..

Citation 59-----
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Title: Thermodynamics and occupation numbers of a Fermi gas in the canonical ensemble
Author: Schonhammer, K.;Inst. fur Theor. Phys., Gottingen Univ., Germany
PUBLICATION: American Journal of Physics, vol.68, no.11, pp. 1032-7 0002-9505
American Assoc. Phys. Teachers through AIP Nov. 2000
12 Refs..

Citation 60-----
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Title: On the use of the statistical definition of entropy to justify Planck's form of the third law of thermodynamics
Author: Mafe, S.; Manzanares, J.A.; de la Rubia, J.;Dept. de Termodinamica Valencia Univ., Spain
PUBLICATION: American Journal of Physics, vol.68, no.10, pp. 932-5 0002-9505
American Assoc. Phys. Teachers through AIP Oct. 2000
23 Refs..

Citation 61-----
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Title: A simple determination of the Einstein temperature
Author: Lagendijk, E.;Dept. of Appl. Phys., Delft Univ. of Technol., Netherlands
PUBLICATION: American Journal of Physics, vol.68, no.10, pp. 961-2 0002-9505
American Assoc. Phys. Teachers through AIP Oct. 2000
4 Refs..

Citation 62-----
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Title: A check of Prigogine's theorem of minimum entropy production in a nonequilibrium stationary state
Author: Danielewicz-Ferchmin, I.; Ferchmin, A.R.;Inst. of Phys., A. Mickiewicz Univ., Poznan, Poland
PUBLICATION: American Journal of Physics, vol.68, no.10, pp. 962-5 0002-9505
American Assoc. Phys. Teachers through AIP Oct. 2000
6 Refs..

Citation 63-----

Citation 64-----
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Title: The Boltzmann reservoir: A model constant-temperature environment
Author: Leff, H.S.;Dept. of Phys., California State Polytech. Univ., Pomona
USA
PUBLICATION: American Journal of Physics, vol.68, no.6, pp. 521-4 0002-9505
American Assoc. Phys. Teachers through AIP June 2000
6 Refs..

Citation 65-----
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Title: Regularization methods for delta-function potential in two-dimensional
quantum mechanics
Author: Su-Long Nyeo;Dept. of Phys., Nat. Cheng Kung Univ., Tainan, Taiwan
PUBLICATION: American Journal of Physics, vol.68, no.6, pp. 571-5 0002-9505
American Assoc. Phys. Teachers through AIP June 2000
9 Refs..

NJIT library/ Databases(find+read articles)/Physics/INSPEC/Advanced Search
Search: Thermodynamics in TI Title and materials in Default Fields/from Apr.2000
/Journal
paper/ American Journal of Physics
Result: 284 citations

Citation 1-----
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Title: Nonequilibrium thermodynamics of unsteady superfluid turbulence in
counterflow and rotating situations
Author: Jou, D.; Mongiovi, M.S.;Dept. de Fisica, Univ. Autonoma de Barcelona
Catalonia, Spain
PUBLICATION: Physical Review B (Condensed Matter and Materials Physics),vol.71
pp. 144517-1-11 0163-1829
APS through AIP 1 Oct. 2005
33 Refs..

Citation 2-----
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Title: Thermodynamics of a Fermi liquid in a magnetic field
Author: Betouras, J.; Efremov, D.; Chubukov, A.;Max-Planck-Institut für Physik
Komplexer
Syst., Dresden, Germany
PUBLICATION: Physical Review B (Condensed Matter and Materials Physics),vol.71
pp. 115112-1-5 0163-1829
APS through AIP 15 Sept. 2005
20 Refs..

Citation 3-----
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Title: Thermodynamics and proton transport in Nafion
Author: Choi, P.; Jalani, N.H.; Datta, R.;Dept. of Chem. Eng., Worcester
Inst., MA, USA
PUBLICATION: Journal of the Electrochemical Society, vol.152, no.8, pp. A1548-
4651
Electrochem. Soc Aug. 2005
53 Refs..

Citation 4-----

46 Refs..

Citation 5-----

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Title: Classical Heisenberg lattice-gas model: thermodynamics and phase
Author: Chamati, H.; Romano, S.;Dipt. di Fisica, Univ. di Pavia, Italy
PUBLICATION: Physical Review B (Condensed Matter and Materials Physics), vol.
pp. 64424-1-10 0163-1829
APS through AIP 1 Aug. 2005
57 Refs..

Citation 6-----

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Title: Thermodynamics of S^z1 ferromagnetic Heisenberg chains with uniax.
ion anisotropy
Author: Junger, I.J.; Ihle, D.; Richter, J.;Inst. fur Theor. Phys., Univ
Germany
PUBLICATION: Physical Review B (Condensed Matter and Materials Physics), vol.
pp. 64454-1-9 0163-1829
APS through AIP 1 Aug. 2005
26 Refs..

Citation 7-----

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Title: Thermodynamics of coarse-grained models of supercooled liquids
Author: Chandler, D.; Garrahan, J.P.;Dept. of Chem., Univ. of California
CA, USA
PUBLICATION: Journal of Chemical Physics, vol.123, no.4, pp. 44511-1-5 0021-9
AIP 22 July 2005
24 Refs..

Citation 8-----

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Title: Air separation by single wall carbon nanotubes: thermodynamics a:
adsorptive
selectivity
Author: Arora, G.; Sandler, S.I.;Dept. of Chem. Eng., Univ. of Delaware,
DE,
USA
PUBLICATION: Journal of Chemical Physics, vol.123, no.4, pp. 44705-1-9 0021-9
AIP 22 July 2005
36 Refs..

Citation 9-----

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Title: Nucleation and reshaping thermodynamics of Ni as catalyst of carl
nanotubes
Author: Liang, L.H.; Liu, F.; Shi, D.X.; Liu, W.M.; Xie, X.C.; Gao, H.J.
Phys., Chinese Acad. of Sci., Beijing, China
PUBLICATION: Physical Review B (Condensed Matter and Materials Physics), vol.
pp. 35453-1-5 0163-1829
APS through AIP 15 July 2005
26 Refs..

Citation 10-----

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Title: Thermodynamics of two-dimensional single-component elastic cryst.
solids: single-wall carbon nanotubes

Citation 11-----

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Title: Role of configurational entropy in the thermodynamics of cluster defects in crystalline solids
Author: Kapur, S.S.; Prasad, M.; Crocker, J.C.; Sinno, T.; Dept. of Chem. Biomolecular Eng., Univ. of Pennsylvania, Philadelphia, PA, USA
PUBLICATION: Physical Review B (Condensed Matter and Materials Physics), vol. 14119-1-12 0163-1829
pp. 14119-1-12 0163-1829
APS through AIP 1 July 2005
46 Refs..

Citation 12-----

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Title: Thermodynamics of two-band superconductors: the case of MgB₂
Author: Dolgov, O.V.; Kremer, R.K.; Kortus, J.; Golubov, A.A.; Shulga, S
Planck-Inst. fur Festkorperforschung, Stuttgart, Germany
PUBLICATION: Physical Review B (Condensed Matter and Materials Physics), vol. 24504-1-11 0163-1829
pp. 24504-1-11 0163-1829
APS through AIP 1 July 2005
71 Refs..

Citation 13-----

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Title: About the thermodynamics of the phonon-induced spin density wave
Author: Szczesniak, R.; Inst. of Phys., Czestochowa Univ. of Technol., Poland
PUBLICATION: Solid State Communications, vol.135, no.1-2, pp. 38-43 0038-1098
Elsevier July 2005
10 Refs..

Citation 14-----

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Title: Thermodynamics of a quasi-one-dimensional spin system for molecular ferrimagnets
Author: Yao, K.L.; Fu, H.H.; Liu, Z.L.; Dept. of Phys., Huazhong Univ. of Technol., Wuhan, China
PUBLICATION: Solid State Communications, vol.135, no.3, pp. 197-202 0038-1098
Elsevier July 2005
16 Refs..

Citation 15-----

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Title: Thermodynamics of MgB₂ by calorimetry and Knudsen thermogravimetry
Author: Cook, L.P.; Klein, R.; Wong-Ng, W.; Huang, Q.; Ribeiro, R.A.; Canfield, P.C.; Mater. Sci. & Eng. Lab., Nat. Inst. of Standards Technol., Gaithersburg, MD, USA
PUBLICATION: IEEE Transactions on Applied Superconductivity, vol.15, no.2, pp. 3227-9 1051-8223
IEEE June 2005
14 Refs..

Citation 16-----

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Title: A thermodynamics based damage mechanics constitutive model for low cycle fatigue analysis of microelectronics solder joints incorporating size effects
Author: Gomez, J.; Basaran, C.; UB Electron. Packaging Lab., Univ. at Buffalo, NY, USA

Title: Adsorption thermodynamics of a mid-chain peptide residue on functional SAM surfaces using SPR
Author: Vernekar, V.N.; Latour, R.A., Jr.;
PUBLICATION: Materials Research Innovations, vol.9, no.2, pp. 53-5 1432-8917
Springer-Verlag June 2005
64 Refs..

Citation 18-----

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Title: Invariance of truncated cluster expansions for first-principles thermodynamics
Author: Sluiter, M.H.F.; Kawazoe, Y.;Inst. for Mater. Res., Tohoku Univ. Japan
PUBLICATION: Physical Review B (Condensed Matter and Materials Physics), vol. 71, pp. 212201-1-2 0163-1829
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Author: Azzouz, M.;Dept. of Phys. & Astron., Laurentian Univ., Sudbury, Ontario
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Author: Knauth, P.; Tuller, H.L.; Lab. de Physico-Chimie des Mater., Pro
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AUTHOR: Mullin, W.J.; Dept. of Phys. & Astron., Massachusetts Univ., Amherst, MA, USA
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AUTHOR: Argaman, N.; Makov, G.; Inst. for Theor. Phys., California Univ., Santa Barbara, CA, USA
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AUTHOR: Balian, R.; Blaizot, J.-P.; CEA, Centre d'Etudes Nucleaires de Saclay, Gif-sur-Yvette, France
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AUTHOR: Leff, H.S.; Dept. of Phys., California State Polytech. Univ., Pomona, CA, USA
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AUTHOR: Nieto, R.; Gonzalez, M.C.; Herrero, F.; ETSII, Univ.
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AUTHOR: Saslow, W.M.; Dept. of Phys., Texas A&M Univ., College Station,
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AUTHOR: Pete, S.F.; Dept. of Phys., New Mexico State Univ., Las Cruces,
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AUTHOR: Brechet, Y.; Neda, Z.; Lab. de Thermodynamique et
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AUTHOR: Bucher, M.; Dept. of Phys., California State Univ., Fresno, CA,
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PUBLICATION: American Journal of Physics, vol.67, no.1, p. 93, 0002-9505
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AUTHOR: Plastino, A.R.; Plastino, A.; Miller, H.G.; Centro Brasileiro de Pesquisas Fisicas, Rio de Janeiro, Brazil
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AUTHOR: Wei Lee; Gilley, H.L.; Caris, J.B.; Dept. of Phys. & Astron., Toledo Univ., OH, USA
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AUTHOR: Herrmann, F.; Hauptmann, H.; Abteilung fur Didaktik der Phys.,
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AUTHOR: Schonhammer, K.; Meden, V.; Inst. fur Theor. Phys., Gottingen
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AUTHOR: Gesari, S.; Irigoyen, B.; Juan, A.; Dept. de Fisica, Univ.
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AUTHOR: de Felicio, J.R.D.; Libero, V.L.; Dept. de Fisica e Inf., Inst.
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AUTHOR: Leff, H.S.; Dept. of Phys., California State Polytech. Univ.,
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AUTHOR: Crosignani, B.; Di Porto, P.; Segev, M.; Dipartimento di
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AUTHOR: Thomsen, J.S.; Bers, H.C.; Henry A. Rowland Dept. of Phys. &
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PUBLICATION: American Journal of Physics, vol.64, no.5, p. 580-3, 0002-9505
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AUTHOR: Molina, M.I.; Dept. de Fisica, Chile Univ., Santiago, Chile
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AUTHOR: Ordonez, C.A.; Dept. of Phys., North Texas Univ., Denton, TX,
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AUTHOR: Manosa, L.; Bou, M.; Calles, C.; Cirera, A.; Dept. dEstructura
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AUTHOR: Hernandez, A.C.; Dept. de Fisica Aplicada, Salamanca Univ.,
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AUTHOR: Ghosh, A.; Mukhopadhyay, P.; Saha Inst. of Nucl. Phys.,
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AUTHOR: Bednarek, S.; Dept. of Phys., Lodz Univ., Poland
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AUTHOR: Leff, H.S.; Dept. of Phys., California State Polytech. Univ.,
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TITLE: Observing thermomigration of air bubbles in a fluid under
gravity at an undergraduate research laboratory
AUTHOR: Simard, J.-F.; Houdayer, A.; Boudreault, R.; Belanger, S.;
Laaouan, A.; Dept. of Phys., Coll. Militaire Royal de
Saint-Jean, Saint-Jean-sur-Richelieu, Que., Canada
PUBLICATION: American Journal of Physics, vol.63, no.9, p. 796-9, 0002-9505
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Citation 56 -----
TITLE: The physical description of elementary surface phenomena:
thermodynamics versus mechanics
AUTHOR: Pellicer, J.; Manzanares, J.A.; Mafe, S.; Dept. de
Termodinamica, Valencia Univ., Spain
PUBLICATION: American Journal of Physics, vol.63, no.6, p. 542-7, 0002-9505
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TITLE: Thermoacoustic heat pumps with maximum power transfer
AUTHOR: Ahlborn, B.; Camire, J.; Dept. of Phys., British Columbia
Univ., Vancouver, BC, Canada
PUBLICATION: American Journal of Physics, vol.63, no.5, p. 449-51, 0002-9505
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TITLE: Ideal quantum gases in two dimensions
AUTHOR: Viefers, S.; Ravndal, F.; Haugset, T.; Inst. of Phys, Oslo
Univ., Norway
PUBLICATION: American Journal of Physics, vol.63, no.4, p. 369-76, 0002-9505
April 1995
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TITLE: Statistico-thermodynamic properties of a binary alloy
AUTHOR: Porta, M.; Castan, T.; Dept. d'Estructura i Constituents de la
Materia, Barcelona Univ., Spain
PUBLICATION: American Journal of Physics, vol.63, no.3, p. 261-7, 0002-9505
March 1995

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TITLE: Duality transformations and the Lienard-Wiechert fields of a
dual-charged particle
AUTHOR: Heras, J.A.; Inst. de Fisica, Univ. Nacional Autonoma de
Mexico, Mexico City, Mexico
PUBLICATION: American Journal of Physics, vol.63, no.3, p. 242-4, 0002-9505
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TITLE: Information-theoretical analysis of a classical relativistic
gas under a steady heat flow
AUTHOR: Ferrer, M.; Jou, D.; Dept. de Fisica, Univ. Autonoma de
Barcelona, Spain
PUBLICATION: American Journal of Physics, vol.63, no.3, p. 237-41, 0002-9505
March 1995
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TITLE: Comment on "Entropy production and the second law of
thermodynamics: an introduction to second law analysis", by
Thomas V. Marcella (Am. J. Phys. 60 (10), 888-895 (1992)1)
AUTHOR: Das, S.K.; Dept. of Phys., Jadavpur Univ., Calcutta, India
PUBLICATION: American Journal of Physics, vol.62, no.12, p. 1151-2,
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TITLE: Kamerlingh Onnes and the discovery of superconductivity
AUTHOR: Meijer, P.H.E.; Dept. of Phys., Catholic Univ. of America,
Washington, DC, USA
PUBLICATION: American Journal of Physics, vol.62, no.12, p. 1105-8,
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TITLE: Entropy of measurement and erasure: Szilard's membrane model
revisited
AUTHOR: Leff, H.S.; Rex, A.F.; Dept. of Phys., California State
Polytech. Univ., Pomona, CA, USA
PUBLICATION: American Journal of Physics, vol.62, no.11, p. 994-1000,
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TITLE: Constant volume gas thermometer without mercury
AUTHOR: Berge, P.O.; Nienhaus, G.U.; Ziegler, J.B.; Dept. of Phys.,
Illinois Univ., Champaign, IL, USA
PUBLICATION: American Journal of Physics, vol.62, no.7, p. 666-7, 0002-9505
July 1994
3 Refs..
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TITLE: Measuring the viscosity of gases
AUTHOR: Nienart, L.; Dept. of Phys., Hartwick Coll., Oneonta, NY, USA
PUBLICATION: American Journal of Physics, vol.62, no.6, p. 566-8, 0002-9505
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- Citation 69 -----
TITLE: On the thermodynamic efficiencies of reversible cycles with
sloping, straight-line processes
AUTHOR: Dickerson, R.H.; Mottmann, J.; Dept. of Phys., California
Polytech. State Univ., San Luis Obispo, CA, USA
PUBLICATION: American Journal of Physics, vol.62, no.6, p. 558-62, 0002-9505
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TITLE: Time's arrow: a numerical experiment
AUTHOR: Fowles, G.R.; Dept. of Phys., Washington State Univ., Pullman,
WA, USA
PUBLICATION: American Journal of Physics, vol.62, no.4, p. 321-8, 0002-9505
April 1994
9 Refs..
- Citation 71 -----
TITLE: Thermodynamics of Crawford's energy equipartition journeys
AUTHOR: Leff, H.S.; Dept. of Phys., California State Polytech. Univ.,
Pomona, CA, USA
PUBLICATION: American Journal of Physics, vol.62, no.2, p. 120-9, 0002-9505
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TITLE: Streak line and path of a particle in introductory fluid
mechanics: an example
AUTHOR: Manzanares, J.A.; Mafe, S.; Dept. of Thermodynamics, Faculty of
Phys., Valencia Univ., Spain
PUBLICATION: American Journal of Physics, vol.62, no.2, p. 179-81, 0002-9505
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TITLE: Comment on 'Entropy production and the second law of

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TITLE: Entropy and the second law: a pedagogical alternative
AUTHOR: Baierlein, R.; Dept. of Phys., Wesleyan Univ., Middletown, CT,
USA
PUBLICATION: American Journal of Physics, vol.62, no.1, p. 15-26, 0002-9505
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TITLE: Low cost, interferometric differential refractometer
AUTHOR: Wilson, T.A.; Reed, W.F.; Dept. of Phys., Tulane Univ., New
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AUTHOR: Neuenschwander, D.E.; Starkey, S.R.; Dept. of Phys., Southern
Nazarene Univ., Bethany, OK, USA
PUBLICATION: American Journal of Physics, vol.61, no.11, p. 1008-13,
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TITLE: Calorimetric measurements of capacitance and inductance using
an integrated circuit temperature sensor
AUTHOR: Edgar, A.; Dept. of Phys., Victoria Univ., Wellington, New
Zealand
PUBLICATION: American Journal of Physics, vol.61, no.10, p. 949-51,
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TITLE: A mutual inductance apparatus for measuring magnetic
susceptibility and electrical conductivity
AUTHOR: Edgar, A.; Quilty, J.W.; Dept. of Phys., Victoria Univ.,
Wellington, New Zealand
PUBLICATION: American Journal of Physics, vol.61, no.10, p. 943-6, 0002-9505
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TITLE: A model for introducing the concept of entropy
AUTHOR: Sobel, M.I.; Dept. of Phys., Brooklyn Coll., NY, USA
PUBLICATION: American Journal of Physics, vol.61, no.10, p. 941-2, 0002-9505
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TITLE: Carnot-like processes in finite-time. I. Theoretical limits
AUTHOR: Nulton, J.D.; Salamon, P.; Pathria, R.K.; Dept. of Math. Sci.,
San Diego State Univ., CA, USA
PUBLICATION: American Journal of Physics, vol.61, no.10, p. 911-16,
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AUTHOR: Goussard, J.-O.; Roulet, B.; Magistere de Phys., Universite
Denis Diderot, Paris, France
PUBLICATION: American Journal of Physics, vol.61, no.9, p. 845-8, 0002-9505
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TITLE: On Bose-Einstein condensation
AUTHOR: Scharf, G.; Inst. fur Theor. Phys., Zurich Univ., Switzerland
PUBLICATION: American Journal of Physics, vol.61, no.9, p. 843-5, 0002-9505
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TITLE: Derivation and implications of the symmetry property of the
permittivity tensor
AUTHOR: Pei-Hsi Tsao; Dept. of Phys., National Taiwan Univ., Taipei,
Taiwan
PUBLICATION: American Journal of Physics, vol.61, no.9, p. 823-5, 0002-9505
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TITLE: A one-dimensional statistical mechanics model with exact
transfer integral solution
AUTHOR: Wysin, G.M.; Dept. of Phys., Kansas State Univ., Manhattan, KS,
USA
PUBLICATION: American Journal of Physics, vol.61, no.8, p. 734-40, 0002-9505
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TITLE: Diagram, of the second law of thermodynamics
AUTHOR: Bucher, M.; Dept. of Phys., California State Univ., Fresno, CA,
USA
PUBLICATION: American Journal of Physics, vol. 61, no. 5, p. 462-6, 0002-9505

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AUTHOR: Zijun Yan; Jincan Chen; Gordon, J.M.; Dept. of Phys., Xiamen Univ., Fujian, China
PUBLICATION: American Journal of Physics, vol.61, no.4, p. 380, 0002-9505 April 1993
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AUTHOR: Leff, H.S.; Mallinckrodt, A.J.; Dept. of Phys., California State Polytech. Univ., Pomona, CA, USA
PUBLICATION: American Journal of Physics, vol.61, no.2, p. 121-7, 0002-9505 Feb. 1993
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TITLE: Comment on 'Implications of the entropy maximum principle', by E. Kazes and P.H. Cutler (Am. J. Phys. 56, 560-561 (1988))
AUTHOR: Dunning-Davies, J.; Dept. of Appl. Math., Hull Univ., UK
PUBLICATION: American Journal of Physics, vol.61, no.1, p. 88-9, 0002-9505 Jan. 1993
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TITLE: The noncalculus expansion of gases experiment: $U = ?NkT$
AUTHOR: Millet, L.E.; Dept. of Phys., California State Univ., Chico, CA, USA
PUBLICATION: American Journal of Physics, vol.61, no.1, p. 79-80, 0002-9505 Jan. 1993
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TITLE: Temperature fluctuations in a heat bath
AUTHOR: Prosper, H.B.; Fermi Nat. Accel. Lab., Batavia, IL, USA
PUBLICATION: American Journal of Physics, vol.61, no.1, p. 54-8, 0002-9505 Jan. 1993
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Citation 92 -----
TITLE: How entropy got its name
AUTHOR: Baierlein, R.; Dept. of Phys., Wesleyan Univ., Middletown, CT, USA
PUBLICATION: American Journal of Physics, vol.60, no.12, p. 1151, 0002-9505 Dec. 1992
2 Refs..

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TITLE: Thermodynamic properties of an anharmonic fermionic oscillator
AUTHOR: de Souza, S.M.; Moss de Oliveira, S.; Thomaz, M.T.; Univ. Federal Fluminense Inst. de Fisica Rio de Janeiro Brazil

TITLE: Charging a capacitor
AUTHOR: Fundaun, I.; Reese, C.; Soonpaa, H.H.; Dept. of Phys., North
Dakota Univ., Grand Forks, ND, USA
PUBLICATION: American Journal of Physics, vol.60, no.11, p. 1047-8,
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TITLE: Entropy production and the second law of thermodynamics: an
introduction to second law analysis
AUTHOR: Marcella, T.V.; Dept. of Phys. & Appl. Phys., Massachusetts
Univ., Lowell, MA, USA
PUBLICATION: American Journal of Physics, vol.60, no.10, p. 888-95,
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Oct. 1992
15 Refs..

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TITLE: Maxwell's demon, rectifiers, and the second law: computer
simulation of Smoluchowski's trapdoor
AUTHOR: Skordos, P.A.; Zurek, W.H.; Santa Fe Inst., NM, USA
PUBLICATION: American Journal of Physics, vol.60, no.10, p. 876-82,
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18 Refs..

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TITLE: Heat conduction in a metallic rod with Newtonian losses
AUTHOR: Rafols, I.; Ortin, J.; Dept. d'Estructura i Constituents de la
Materia, Barcelona Univ., Catalonia, Spain
PUBLICATION: American Journal of Physics, vol.60, no.9, p. 846-52, 0002-9505
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TITLE: Temperature servomechanisms using thermoelectric modules
AUTHOR: Van Baak, D.A.; Dept. of Phys., Calvin Coll., Grand Rapids, MI,
USA
PUBLICATION: American Journal of Physics, vol.60, no.9, p. 803-15, 0002-9505
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TITLE: The reaction force on a Helmholtz resonator driven at high
sound pressure amplitudes
AUTHOR: Boullosa, R.R.; Orduna-Bustamante, F.; Centra de Instrum.,
Univ. Nacional Autonoma de Mexico, Mexico City, Mexico
PUBLICATION: American Journal of Physics, vol.60, no.8, p. 722-6, 0002-9505
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11 Refs..

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TITLE: New Bucher diagrams for a class of irreversible Carnot cycles
AUTHOR: Zijun Yan; Jincan Chen; Dept. of Phys., Xiamen Univ., China
PUBLICATION: American Journal of Physics, vol.60, no.5, p. 475-6, 0002-9505
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8 Refs..
- Citation 102 -----
TITLE: All about work (mechanics of point particles and
thermodynamics)
AUTHOR: Mallinckrodt, A.J.; Leff, H.S.; Dept. of Phys., California
State Polytech. Univ., Pomona, CA, USA
PUBLICATION: American Journal of Physics, vol.60, no.4, p. 356-65, 0002-9505
April 1992
20 Refs..
- Citation 103 -----
TITLE: Why does heating water in a kettle produce sound?
AUTHOR: Aljishi, S.; Tatarkiewicz, J.; Max-Planck-Inst. fur
Festkorperforschung, Stuttgart, Germany
PUBLICATION: American Journal of Physics, vol.59, no.7, p. 628-32, 0002-9505
July 1991
9 Refs..
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TITLE: Assumptions implying the Schrodinger equation
AUTHOR: Jordan, T.F.; Dept. of Phys., Minnesota Univ., Duluth, MN, USA
PUBLICATION: American Journal of Physics, vol.59, no.7, p. 606-8, 0002-9505
July 1991
13 Refs..
- Citation 105 -----
TITLE: Generalized power versus efficiency characteristics of heat
engines: the thermoelectric generator as an instructive
illustration
AUTHOR: Gordon, J.M.; Jacob Blaustein Inst. for Desert Res., Ben-Gurion
Univ. of the Negev, Israel
PUBLICATION: American Journal of Physics, vol.59, no.6, p. 551-5, 0002-9505
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31 Refs..
- Citation 106 -----
TITLE: On the evaluation of the internal energy and chemical potential
of an ideal fermion system
AUTHOR: Aguilera-Navarro, V.C.; Estevez, G.A.; Solano-Torres, W.; Inst.
de Fisica Teorica, Sao Paulo, Brazil
PUBLICATION: American Journal of Physics, vol.59, no.5, p. 452-4, 0002-9505
May 1991
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TITLE: The Graduate Record Examination as an indicator of learning of
the curriculum taught to physics majors in US institutions
AUTHOR: Halley, J.W.; Adjoudani, A.; Heller, P.; Terwilliger, J.S.;
Sch. of Phys. & Astron., Minnesota Univ., Minneapolis, MN,
USA
PUBLICATION: American Journal of Physics, vol.59, no.5, p. 403-10, 0002-9505
May 1991
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TITLE: Concept of relativistic temperature via the Crawford technique
AUTHOR: Menon, V.J.; Agrawal, D.C.; Dept. of Phys., Banaras Hindu
Univ., Varanasi, India
PUBLICATION: American Journal of Physics, vol.59, no.3, p. 258-60, 0002-9505
March 1991
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TITLE: A general physics laboratory investigation of the
thermodynamics of a rubber band
AUTHOR: Savarino, G.; Fisch, M.R.; Dept. of Phys., John Carroll Univ.,
University Heights, OH, USA
PUBLICATION: American Journal of Physics, vol.59, no.2, p. 141-5, 0002-9505
Feb. 1991
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TITLE: The probability distribution for a lattice gas: a simple
characterization of the liquid-vapor phase transition
AUTHOR: Guemez, J.; Velasco, S.; Dept. de Fisica Aplicad, Salamanca
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PUBLICATION: American Journal of Physics, vol.59, no.4, p. 335-40, 0002-9505
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TITLE: Note on 'a thermometer based on Archimedes' principle', by
George D. Nickas (Am. J. Phys. 57, 845-6 (1989))
AUTHOR: Geballe, R.; Dept. of Phys., Washington Univ., Seattle, WA, USA
PUBLICATION: American Journal of Physics, vol.59, no.1, p. 90, 0002-9505
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TITLE: Application of a laser beam in demonstration of adiabatic gas
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AUTHOR: Blaszcak, Z.; Gauden, P.; Quantum Electron. Lab., Inst. of
Phys., A. Mickiewicz Univ., Poznan, Poland
PUBLICATION: American Journal of Physics, vol.58, no.11, p. 1112-13,
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AUTHOR: Diu, B.; Guthmann, C.; Lederer, D.; Roulet, B.; Lab. de Phys.
Theor. et Hautes Energies, Paris VII Univ., Paris, France
PUBLICATION: American Journal of Physics, vol.58, no.10, p. 974-8, 0002-9505
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TITLE: Are sound waves isothermal or adiabatic?
AUTHOR: Junru Wu; Dept. of Phys., Vermont Univ., Burlington, VT, USA
PUBLICATION: American Journal of Physics, vol.58, no.7, p. 694-6, 0002-9505
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TITLE: Quasiequilibrium determination of high-T/sub c/ superconductor
transition temperatures
AUTHOR: Pechan, M.J.; Horvath, J.A.; Dept. of Phys., Miami Univ.,
Oxford, OH, USA
PUBLICATION: American Journal of Physics, vol.58, no.7, p. 642-4, 0002-9505
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TITLE: A 0.7-mW magnetic heat engine
AUTHOR: Mattocks, P.G.; Dept. of Phys. & Astron., State Univ. of New
York, Buffalo, NY, USA
PUBLICATION: American Journal of Physics, vol.58, no.6, p. 545-8, 0002-9505
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TITLE: Efficiency reduction of heat engines due to power extraction
AUTHOR: Ahlborn, B.; Barnard, A.J.; Dept. of Phys., British Columbia
Univ., Vancouver, BC, Canada
PUBLICATION: American Journal of Physics, vol.58, no.5, p. 498-9, 0002-9505
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TITLE: Modified Bucher diagrams for heat flows and works in two
classes of cycles
AUTHOR: Zijun Yan; Jincan Chen; Dept. of Phys., Xiamen Univ., Fujian,
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PUBLICATION: American Journal of Physics, vol.58, no.4, p. 404-5, 0002-9505
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Citation 120 -----
TITLE: Observations on efficiency of heat engines operating at maximum
power
AUTHOR: Gordon, J.M.; Jacob Blaustein Inst. for Desert Res., Ben-Gurion
Univ. of the Negev, Israel

AUTHOR: Muschik, W.; Inst. fur Theor. Phys., Tech. Univ. Berlin, West
Germany
PUBLICATION: American Journal of Physics, vol.58, no.3, p. 241-4, 0002-9505
March 1990
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TITLE: Entropy and homogeneity
AUTHOR: Rodewald, B.; Osnabrueck Univ., West Germany
PUBLICATION: American Journal of Physics, vol.58, no.2, p. 164-8, 0002-9505
Feb. 1990
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TITLE: Maxwell's demon, power, and time
AUTHOR: Leff, H.S.; Dept. of Phys., California State Polytech. Univ.,
Pomona, CA, USA
PUBLICATION: American Journal of Physics, vol.58, no.2, p. 135-42, 0002-9505
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25 Refs..

Citation 124 -----
TITLE: Maximum power point characteristics of heat engines as a
general thermodynamic problem
AUTHOR: Gordon, J.M.; Dept. of Mech. Eng., Ben-Gurion Univ. of the
Negev, Beersheva, Israel
PUBLICATION: American Journal of Physics, vol.57, no.12, p. 1136-42,
0002-9505
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Citation 125 -----
TITLE: Integrated sensors to facilitate temperature measurement
AUTHOR: Taylor, B.E.; Dept. of Phys., Wright State Univ., Dayton, OH,
USA
PUBLICATION: American Journal of Physics, vol.57, no.11, p. 1049-50,
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Nov. 1989
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Citation 126 -----
TITLE: Wind energy as a solar-driven heat engine: a thermodynamic
approach
AUTHOR: Gordon, J.M.; Zarmi, Y.; Jacob Blaustein Inst. for Desert Res.,
Ben-Gurion Univ. of the Negev, Sede Boqer, Israel
PUBLICATION: American Journal of Physics, vol.57, no.11, p. 995-8, 0002-9505
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TITLE: A thermometer based on Archimedes' principle
AUTHOR: Nickas G D : Dept of Phys Ithaca Coll NY USA

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1006-1007 (1987))
AUTHOR: Weinstock, R.; Dept. of Phys., Oberlin Coll., OH, USA
PUBLICATION: American Journal of Physics, vol.57, no.8, p. 763, 0002-9505
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TITLE: On pressure change occurring during gas mixing
AUTHOR: Chenoweth, D.R.; Paolucci, S.; Dept. of Appl. Mech., Sandia
Nat. Labs., Livermore, CA, USA
PUBLICATION: American Journal of Physics, vol.57, no.5, p. 463-5, 0002-9505
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TITLE: Inefficiency and irreversibility in the Bucher diagram
AUTHOR: Wallingford, J.; Dept. of Phys. Sci., Pembroke State Univ., NC,
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PUBLICATION: American Journal of Physics, vol.57, no.4, p. 379-81, 0002-9505
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TITLE: The two cycles of the rotary Curie-point heat engine
AUTHOR: Barnes, G.; Dept. of Phys., Nevada Univ., Reno, NE, USA
PUBLICATION: American Journal of Physics, vol.57, no.3, p. 223-9, 0002-9505
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TITLE: Gravitational constraints on blackbody radiation
AUTHOR: Massa, C.
PUBLICATION: American Journal of Physics, vol.57, no.1, p. 91-2, 0002-9505
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TITLE: An adiabatic reversible process
AUTHOR: Rechtman, R.; Dept. de Fisica, Univ. Nacional Autonoma de
Mexico, Mexico
PUBLICATION: American Journal of Physics, vol.56, no.12, p. 1104-5,
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TITLE: Are dilute solutions always dilute?
AUTHOR: Gitterman, M.; Dept. of Phys., Bar-Ilan Univ., Ramat-Gan,
Israel
PUBLICATION: American Journal of Physics, vol.56, no.11, p. 1000-2,
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Kibbutz Movement, Tivon, Israel
PUBLICATION: American Journal of Physics, vol.56, no.10, p. 923-8, 0002-9505
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TITLE: Spatial dependence of thermoelectric voltages and reversible
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AUTHOR: Walstrom, P.L.; Appl. Superconductivity Center, Wisconsin
Univ., Madison, WI, USA
PUBLICATION: American Journal of Physics, vol.56, no.10, p. 890-4, 0002-9505
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TITLE: A simple example related to the time-reversal paradox
AUTHOR: Luke, J.C.; Dept. of Math. Sci., Indiana Univ., Indianapolis,
IN, USA
PUBLICATION: American Journal of Physics, vol.56, no.8, p. 734-6, 0002-9505
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7 Refs..

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TITLE: Analytic approximation of the chemical potential of an ideal
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AUTHOR: Aguilera-Navarro, V.C.; Estevez, G.A.; Dept. of Phys., North
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PUBLICATION: American Journal of Physics, vol.56, no.5, p. 456-8, 0002-9505
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TITLE: Comment on the discovery of the second law
AUTHOR: Tansjo, L.; Div. of Org. Chem., Lund. Univ., Sweden
PUBLICATION: American Journal of Physics, vol.56, no.2, p. 179-82, 0002-9505
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18 Refs..

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TITLE: Mixing and assimilation in systems of interaction particles
AUTHOR: Ben-Naim, A.; Dept. of Phys. Chem., Hebrew Univ. of Jerusalem,
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PUBLICATION: American Journal of Physics, vol.55, no.12, p. 1105-9,
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Translated in: A07
12 Refs..

Citation 141 -----

Citation 142 -----
TITLE: Available work from a finite source and sink: how effective is
a Maxwell's demon?
AUTHOR: Leff, H.S.; Dept. of Phys., California State Polytech. Univ.,
Pomona, CA, USA
PUBLICATION: American Journal of Physics, vol.55, no.8, p. 701-5, 0002-9505
Aug. 1987
Translated in: A04
11 Refs..

Citation 143 -----
TITLE: Frequency-dependent performance of a nonideal Carnot engine
AUTHOR: Rebhan, E.; Ahlborn, B.; Dept. of Phys., British Columbia
Univ., Vancouver, BC, Canada
PUBLICATION: American Journal of Physics, vol.55, no.5, p. 423-8, 0002-9505
May 1987
Translated in: A06
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Citation 144 -----
TITLE: The operation of Maxwell's demon in a low entropy system
AUTHOR: Rex, A.F.; Dept. of Phys., Univ. of Puget Sound, Tacoma, WA,
USA
PUBLICATION: American Journal of Physics, vol.55, no.4, p. 359-62, 0002-9505
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Citation 145 -----
TITLE: Carnot's function: origins of the thermodynamic concept of
temperature
AUTHOR: Cropper, W.H.; Dept. of Chem., St. Lawrence Univ., Canton, NY,
USA
PUBLICATION: American Journal of Physics, vol.55, no.2, p. 120-9, 0002-9505
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47 Refs..

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TITLE: Measurement of the thermal conductivity of liquids using a
transient hot wire technique
AUTHOR: Fox, J.N.; Gaggini, N.W.; Wangsani, R.; Dept. of Phys., Indiana
Univ. of Pennsylvania, PA, USA
PUBLICATION: American Journal of Physics, vol.55, no.3, p. 272-4, 0002-9505
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13 Refs..

Citation 147 -----
TITLE: Entropy in the teaching of introductory thermodynamics
AUTHOR: Fuchs H H : Winterthur Polytech Sch of Eng Switzerland

TITLE: A variational principle in classical thermodynamics
AUTHOR: Buchdahl, H.A.; Dept. of Phys. & Theor. Phys., Fac. of Sci.,
Australian Nat. Univ., Canberra, ACT, Australia
PUBLICATION: American Journal of Physics, vol.55, no.1, p. 81-3, 0002-9505
Jan. 1987
Translated in: A19
14 Refs..

Citation 149 -----
TITLE: A rotary Curie point magnetic engine: a simple demonstration of
a Carnot-cycle device
AUTHOR: Toftlund, H.; Dept. of Chem., Odense Univ., Denmark
PUBLICATION: American Journal of Physics, vol.55, no.1, p. 48-9, 0002-9505
Jan. 1987
Translated in: A10
8 Refs..

Citation 150 -----
TITLE: A surrealistic tale of electricity
AUTHOR: Fuchs, H.U.; Winterthur Polytech., Switzerland
PUBLICATION: American Journal of Physics, vol.54, no.10, p. 907-9, 0002-9505
Oct. 1986
Translated in: A07
1 Refs..

Citation 151 -----
TITLE: New diagram for heat flows and work in a Carnot cycle
AUTHOR: Bucher, M.; Dept. of Phys., California State Univ., Fresno, CA,
USA
PUBLICATION: American Journal of Physics, vol.54, no.9, p. 850-51, 0002-9505
Sept. 1986
Translated in: A20
0 Refs..

Citation 152 -----
TITLE: On the thermodynamics of Planck's radiation
AUTHOR: Massa, C.
PUBLICATION: American Journal of Physics, vol.54, no.8, p. 754-5, 0002-9505
Aug. 1986
Translated in: B16
9 Refs..

Citation 153 -----
TITLE: Entropy change when charging a capacitor: a demonstration
experiment
AUTHOR: Heinrich, F.; Lab. of Solid State Phys., Swiss Federal Inst. of
Technol. ETH, Zurich, Switzerland
PUBLICATION: American Journal of Physics, vol.54, no.8, p. 742-4, 0002-9505
Aug. 1986
Translated in: B08
3 Refs..

Citation 155 -----
TITLE: Are microscopic pictures part of macroscopic thermodynamics?
(comment and reply)
AUTHOR: Erlichson, H.; Sherwood, B.A.; Bernard, W.H.; Coll. of Staten
Island, NY, USA
PUBLICATION: American Journal of Physics, vol.54, no.7, p. 665-66, 0002-9505
July 1986
Translated in: A26
4 Refs..

Citation 156 -----
TITLE: Cooling by immersion in liquid nitrogen
AUTHOR: Listerman, T.W.; Boshinski, T.A.; Knese, L.F.; Wright State
Univ., Dayton, OH, USA
PUBLICATION: American Journal of Physics, vol.54, no.6, p. 554-8, 0002-9505
June 1986
Translated in: A15
16 Refs..

Citation 157 -----
TITLE: Mechanical equivalent of heat: electrical method by
vaporization of liquid nitrogen
AUTHOR: Neil, T.E.; Schulze, P.D.; Dept. of Phys., Abilene Christian
Univ., TX, USA
PUBLICATION: American Journal of Physics, vol.54, no.5, p. 474-5, 0002-9505
May 1986
Translated in: A23
2 Refs..

Citation 158 -----
TITLE: Solar structure without computers
AUTHOR: Clayton, D.D.; Dept. of Space Phys. & Astron., Rice Univ.,
Houston, TX, USA
PUBLICATION: American Journal of Physics, vol.54, no.4, p. 354-62, 0002-9505
April 1986
Translated in: A13
4 Refs..

Citation 159 -----
TITLE: Volume exclusion correction to the ideal gas with a lattice gas
model
AUTHOR: Pimbley, J.M.; Dept. of Phys., Rensselaer Polytech. Inst.,
Troy, NY, USA
PUBLICATION: American Journal of Physics, vol.54, no.1, p. 54-7, 0002-9505
Jan. 1986
Translated in: A09
5 Refs..

Citation 160 -----
TITLE: Comment on 'Remark on the second law of thermodynamics', (Am.
.J. Phys. 52 720 (1984))

Citation 161 -----
TITLE: Carnot and the universal Heat Death
AUTHOR: Baily, M.; Dept. of Phys. & Astron., Northwestern Univ., IL,
USA
PUBLICATION: American Journal of Physics, vol.53, no.11, p. 1092-9,
0002-9505
Nov. 1985
Translated in: A11
44 Refs..

Citation 162 -----
TITLE: Internal work: a thermodynamic treatment
AUTHOR: Kemp, H.R.; R. Australian Naval Coll., Jervis Bay, NSW,
Australia
PUBLICATION: American Journal of Physics, vol.53, no.10, p. 1008, 0002-9505
Oct. 1985
Translated in: A20
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Citation 163 -----
TITLE: Relationship between angular distribution of reflected
particles and the second principle of thermodynamics in the
presence of a magnetic field
AUTHOR: Berger, J.; Dept. of Phys. & Math., Oranim-Sch. of Educ. of the
Kibbutz Movement, Tivon, Israel
PUBLICATION: American Journal of Physics, vol.53, no.9, p. 899-902,
0002-9505
Sept. 1985
Translated in: B04
8 Refs..

Citation 164 -----
TITLE: Irreversibility in step processes: some comments
AUTHOR: McLean, W.L.; Serin Phys. Lab., Rutgers Univ., New Brunswick,
NJ, USA
PUBLICATION: American Journal of Physics, vol.53, no.8, p. 780-1, 0002-9505
Aug. 1985
Translated in: A19
10 Refs..

Citation 165 -----
TITLE: Application of classical physics to electronic devices
AUTHOR: Guy, A.G.; Dept. of Phys. & Space Sci., Florida Inst. of
Technol., Melbourne, FL, USA
PUBLICATION: American Journal of Physics, vol.53, no.4, p. 339-43, 0002-9505
April 1985
19 Refs..

Citation 166 -----
TITLE: Two freshman courses which introduce digital electronics,
programming computers and interfacing

Citation 167 -----
TITLE: Mechanical model for a first-order phase transition
AUTHOR: Sivardiere, J.; CENG DRF/Lab. D.Interactions Hyperfines, France
PUBLICATION: American Journal of Physics, vol.53, no.4, p. 363-5, 0002-9505
April 1985
6 Refs..

Citation 168 -----
TITLE: Understanding some simple phenomena in thermoacoustics with
applications to acoustical heat engines
AUTHOR: Wheatley, J.; Hofler, T.; Swift, G.W.; Migliori, A.; Condensed
Matter & Thermal Phys. Group., Los Alamos Nat. Lab., NM, USA
PUBLICATION: American Journal of Physics, vol.53, no.2, p. 147-62, 0002-9505
Feb. 1985
29 Refs..

Citation 169 -----
TITLE: Work and heat transfer in the presence of sliding friction
AUTHOR: Sherwood, B.A.; Bernard, W.H.; Dept. of Phys., Illinois Univ.,
Urbana, IL, USA
PUBLICATION: American Journal of Physics, vol.52, no.11, p. 1001-7,
0002-9505
Nov. 1984
7 Refs..

Citation 170 -----
TITLE: Remark on the second law of thermodynamics
AUTHOR: Yeh, H.-C.
PUBLICATION: American Journal of Physics, vol.52, no.8, p. 720-3, 0002-9505
Aug. 1984
7 Refs..

Citation 171 -----
TITLE: The polythermal ensemble: a rigorous interpretation of
temperature fluctuations in statistical mechanics
AUTHOR: Phillis, G.D.J.; Dept. of Chem., Univ. of Michigan, Ann Arbor,
MI, USA
PUBLICATION: American Journal of Physics, vol.52, no.7, p. 629-32, 0002-9505
July 1984
4 Refs..

Citation 172 -----
TITLE: Experiment to verify the second law of thermodynamics using a
thermoelectric device
AUTHOR: Gupta, V.K.; Shanker, G.; Saraf, B.; Sharma, N.K.; Centre for
Dev. of Phys. Education, Univ. of Rajasthan, Jaipur, India
PUBLICATION: American Journal of Physics, vol.52, no.7, p. 625-8, 0002-9505
July 1984
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Citation 173 -----
TITLE: Internal energy in the first law of thermodynamics

Citation 174 -----
TITLE: Thermal conductivity, thermoelectric power, and thermal diffusivity from the same apparatus
AUTHOR: Tsatis, D.E.; Phys. Dept., Univ. of Patras, Patras, Greece
PUBLICATION: American Journal of Physics, vol.52, no.6, p. 569, 0002-9505
June 1984
4 Refs..

Citation 175 -----
TITLE: Stirling's cycle and the second law of thermodynamics
AUTHOR: Simon, R.A.; Univ. de Magallanes, Punta Arenas, Chile
PUBLICATION: American Journal of Physics, vol.52, no.6, p. 496-9, 0002-9505
June 1984
13 Refs..

Citation 176 -----
TITLE: Comments on 'Ideal gas and the second law of thermodynamics' (and reply)
AUTHOR: Mandal, G.; Fox, R.F.; Dept. of Phys., Presidency Coll., Calcutta, India
PUBLICATION: American Journal of Physics, vol.52, no.5, p. 462-3, 0002-9505
May 1984
4 Refs..

Citation 177 -----
TITLE: A note on the thermodynamics of blackbody radiation
AUTHOR: Pearson, J.M.; Dept. de Phys., Univ. de Montreal, Montreal, Que., Canada
PUBLICATION: American Journal of Physics, vol.52, no.3, p. 262-3, 0002-9505
March 1984
4 Refs..

Citation 178 -----
TITLE: Joule's experiment modified by Newton's law of cooling
AUTHOR: Horst, J.L.; Weber, M.; Phys. Dept., Eastern Mennonite Coll., Harrisonburg, VA, USA
PUBLICATION: American Journal of Physics, vol.52, no.3, p. 259-61, 0002-9505
March 1984
2 Refs..

Citation 179 -----
TITLE: No free lunch for the Doppler demon
AUTHOR: Chardin, G.; DPhPE, CENS, Gif-sur-Yvette, France
PUBLICATION: American Journal of Physics, vol.52, no.3, p. 252-3, 0002-9505
March 1984
1 Refs..

Citation 180 -----
TITLE: Bifurcations, propagating solutions, and phase transitions in a nonlinear chemical reaction with diffusion
AUTHOR: Albano, A.M.; Abraham, N.B.; Chyba, D.E.; Martelli, M.; Dept. of Phys Brvn Mawr Coll Brvn Mawr PA IISA

AUTHOR: Landsberg, P.T.; Dept. of Electrical Engng., Univ. of Florida,
Gainesville, FL, USA
PUBLICATION: American Journal of Physics, vol.51, no.9, p. 842-5, 0002-9505
Sept. 1983
27 Refs..

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TITLE: Le Chatelier reciprocal relations and the mechanical analog
AUTHOR: Gilmore, R.; Dept. of Phys. & Atmospheric Sci., Drexel Univ.,
Philadelphia, PA, USA
PUBLICATION: American Journal of Physics, vol.51, no.8, p. 733-43, 0002-9505
Aug. 1983
10 Refs..

Citation 183 -----
TITLE: Pseudowork and real work
AUTHOR: Sherwood, B.A.; Dept. of Phys., Univ. of Illinois, Urbana, IL,
USA
PUBLICATION: American Journal of Physics, vol.51, no.7, p. 597-602,
0002-9505
July 1983
10 Refs..

Citation 184 -----
TITLE: Comment on 'The concept of temperature and its dependence on
the laws of thermodynamics'
AUTHOR: Thomsen, J.S.; Dept. of Phys., Johns Hopkins Univ., Baltimore,
MD, USA
PUBLICATION: American Journal of Physics, vol.51, no.5, p. 462, 0002-9505
May 1983
2 Refs..

Citation 185 -----
TITLE: Death in a hot tub: the physics of heat stroke
AUTHOR: Bartlett, A.A.; Braun, T.J.; Dept. of Phys., Univ. of Colorado,
Boulder, CO, USA
PUBLICATION: American Journal of Physics, vol.51, no.2, p. 127-32, 0002-9505
Feb. 1983
25 Refs..

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TITLE: An experiment in optical pyrometry
AUTHOR: Armstrong, H.L.; Dept. of Phys., Queen's Univ., Kingston, Ont.,
Canada
PUBLICATION: American Journal of Physics, vol.51, no.1, p. 89, 0002-9505
Jan. 1983
3 Refs..

Citation 187 -----
TITLE: Gibbs, Liouville's theorem, and the American frontier
AUTHOR: Gearhart, C.A., Jr.; Dept. of Phys., St. John's Univ.,
Collegeville MN USA

AUTHOR: Motz, H.; Dept. of Phys., Univ. of Oxford, Oxford, UK
PUBLICATION: American Journal of Physics, vol.51, no.1, p. 72-3, 0002-9505
Jan. 1983
2 Refs..

Citation 189 -----
TITLE: Work and heat in the light of (thermal and laser) light
AUTHOR: Laufer, G.; Faculty of Mech. Engng., Technion-Israel Inst. of
Technol., Haifa, Israel
PUBLICATION: American Journal of Physics, vol.51, no.1, p. 42-3, 0002-9505
Jan. 1983
14 Refs..

Citation 190 -----
TITLE: Transistor probe for thermal conductivity
AUTHOR: du Plessis, L.A.; Riverina Coll. of Advanced Education, Wagga
Wagga, NSW, Australia
PUBLICATION: American Journal of Physics, vol.50, no.12, p. 1171-2,
0002-9505
Dec. 1982
13 Refs..

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TITLE: 1982 Meeting of the American Physical Society
PUBLICATION: Journal of Applied Physics, vol.53, no.10, 0021-8979
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TITLE: Correlation of changes in laser tube temperature, cavity
length, and beam polarization for an internal-mirror
helium-neon laser
AUTHOR: Woolsey, G.A.; Sulaiman, M.Y.; Mokhsin, M.; Dept. of Phys.,
Univ. of New England, Armidale, NSW, Australia
PUBLICATION: American Journal of Physics, vol.50, no.10, p. 936-40,
0002-9505
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16 Refs..

Citation 193 -----
TITLE: Science and society test. VII. Energy and environment
AUTHOR: Hafemeister, D.W.; Phys. Dept., California Polytech. State
Univ., San Luis Obispo, CA, USA
PUBLICATION: American Journal of Physics, vol.50, no.8, p. 713-20, 0002-9505
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14 Refs..

Citation 194 -----
TITLE: The ideal gas and the second law of thermodynamics
AUTHOR: Fox, R.F.; School of Phys., Georgia Tech., Atlanta, GA, USA
PUBLICATION: American Journal of Physics, vol.50, no.9, p. 804-5, 0002-9505
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TITLE: Adiabatic invariance of phase volume in some easy cases
AUTHOR: Fernandez-Pineda, C.; Diez de los Rios, A.; Mengual, J.I.;
Dept. de Fisica, Univ. de Malaga, Malaga, Spain
PUBLICATION: American Journal of Physics, vol.50, no.3, p. 262-7, 0002-9505
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14 Refs..

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TITLE: Didactic remarks on the Sears-Kestin statement of the second
law of thermodynamics
AUTHOR: Lu, P.-C.; Dept. of Mech. Engng., Univ. of Nebraska, Lincoln,
NE, USA
PUBLICATION: American Journal of Physics, vol.50, no.3, p. 247-51, 0002-9505
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17 Refs..

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TITLE: Parametric solution of the van der Waals liquid-vapor
coexistence curve
AUTHOR: Lekner, J.; Phys. Dept., Victoria Univ., Wellington, New
Zealand
PUBLICATION: American Journal of Physics, vol.50, no.2, p. 161-3, 0002-9505
Feb. 1982
11 Refs..

Citation 199 -----
TITLE: Determination of kinetic and thermodynamic parameters that
describe isothermal seed germination: a student research
project
AUTHOR: Hageseth, G.T.; Dept. of Phys., Univ. of North Carolina,
Greensboro, NC, USA
PUBLICATION: American Journal of Physics, vol.50, no.2, p. 133-6, 0002-9505
Feb. 1982
13 Refs..

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TITLE: Abbe's sine theorem from a thermodynamic and Fourier transform
argument
AUTHOR: Higbie, J.; Dept. of Phys., Univ. Queensland, Brisbane, Qld.,
Australia
PUBLICATION: American Journal of Physics, vol.49, no.8, p. 788-9, 0002-9505
Aug. 1981
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TITLE: Thermodynamics of blackbody radiation
AUTHOR: Kelly, R.E.; Phys. Dept., Univ. of Mississippi, University, MS,
USA
PUBLICATION: American Journal of Physics, vol.49, no.8, p. 714-19, 0002-9505

AUTHOR: Ondrechen, M.J.; Andresen, B.; Mozurkewich, M.; Berry, R.S.;
Dept. of Chem. & James Franck Inst., Univ. of Chicago,
Chicago, IL, USA
PUBLICATION: American Journal of Physics, vol.49, no.7, p. 681-5, 0002-9505
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Citation 203 -----
TITLE: The concept of temperature and its dependence on the laws of
thermodynamics
AUTHOR: Ehrlich, P.; Dept. of Philosophy, Committee on History &
Philosophy of Sci., Univ. of Maryland, College Park, MD, USA
PUBLICATION: American Journal of Physics, vol.49, no.7, p. 622-32, 0002-9505
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45 Refs..

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TITLE: Inexpensive digital thermometer
AUTHOR: Edmunds, D.L.; Cowen, J.A.; Dept. of Phys., Michigan State
Univ., East Lansing, MI, USA
PUBLICATION: American Journal of Physics, vol.49, no.6, p. 599-601,
0002-9505
June 1981
4 Refs..

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TITLE: Some remarks on a generalized heat conduction equation
AUTHOR: Agarwal, V.K.; Xerox Corp., Rochester, NY, USA
PUBLICATION: American Journal of Physics, vol.49, no.5, p. 503-4, 0002-9505
May 1981
26 Refs..

Citation 206 -----
TITLE: Maxwell's relations for a van der Waals gas and a nuclear
paramagnetic system
AUTHOR: Herlihy, J.; Michelson, C.; Prieto, M.; Ruth, J.; Barker, W.A.;
Phys. Dept., Univ. of Santa Clara, Santa Clara, CA, USA
PUBLICATION: American Journal of Physics, vol.49, no.5, p. 435-8, 0002-9505
May 1981
12 Refs..

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TITLE: The Doppler demon
AUTHOR: Denur, J.
PUBLICATION: American Journal of Physics, vol.49, no.4, p. 352-5, 0002-9505
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TITLE: Thermal spring: an attempt to store heat as strain energy
AUTHOR: Schonblom, J.E.; Univ. of Tennessee, Chattanooga, TN, USA
PUBLICATION: American Journal of Physics, vol.49, no.3, p. 279-80, 0002-9505

Danbury, CT, USA
PUBLICATION: American Journal of Physics, vol.49, no.2, p. 177-84, 0002-9505
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TITLE: Black hole thermodynamics in an undergraduate thermodynamics
course
AUTHOR: Parker, B.R.; McLeod, R.J.; Phys. Dept., Idaho State Univ.,
Pocatello, ID, USA
PUBLICATION: American Journal of Physics, vol.48, no.12, p. 1066-70,
0002-9505
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15 Refs..

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TITLE: How incorrect is the classical partition function for the ideal
gas?
AUTHOR: Koremer, H.; Dept. of Electrical & Computer Engng., Univ. of
California, Santa Barbara, CA, USA
PUBLICATION: American Journal of Physics, vol.48, no.11, p. 962-3, 0002-9505
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TITLE: Concepts of nonequilibrium thermodynamics in discrete model of
heat conduction
AUTHOR: Lurie, D.; Dept. de Fisica Teorica, Univ. de Barcelona,
Barcelona, Spain
PUBLICATION: American Journal of Physics, vol.48, no.10, p. 868-72,
0002-9505
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8 Refs..

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TITLE: Kinetic theory derivation of the adiabatic law for ideal gases
AUTHOR: Sobel, M.I.; Dept. of Phys., Brooklyn Coll., Brooklyn, NY, USA
PUBLICATION: American Journal of Physics, vol.48, no.10, p. 877-8, 0002-9505
Oct. 1980
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TITLE: Thermodynamic laws of neutrino and photon emission
AUTHOR: Walsh, P.J.; Gallo, C.F.; Fairleigh Dickinson Univ., Teaneck,
NJ, USA
PUBLICATION: American Journal of Physics, vol.48, no.8, p. 599-603,
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TITLE: Energy considerations concerning current loops and magnetic

- Citation 216 -----
TITLE: Dipole relaxation in an electric field
AUTHOR: Neumann, R.M.; Polymer Sci. & Engng. Dept., Univ. of
Massachusetts, Amherst, MA, USA
PUBLICATION: American Journal of Physics, vol.48, no.7, p. 543-5, 0002-9505
July 1980
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- Citation 217 -----
TITLE: Elementary derivation of the Saha equation
AUTHOR: Nickel, G.H.; Dept. of Phys., Air Force Inst. of Technol.,
Wright-Patterson Air Force Base, OH, USA
PUBLICATION: American Journal of Physics, vol.48, no.6, p. 448-50, 0002-9505
June 1980
4 Refs..
- Citation 218 -----
TITLE: Entropic approach to Brownian movement
AUTHOR: Neumann, R.M.; Polymer Sci. & Engng. Program, Univ. of
Massachusetts, Amherst, MA, USA
PUBLICATION: American Journal of Physics, vol.48, no.5, p. 354-7, 0002-9505
May 1980
12 Refs..
- Citation 219 -----
TITLE: Thermodynamics of cooling a (live) human body
AUTHOR: Weinstock, H.; Phys. Dept., Illinois Inst. of Technol.,
Chicago, IL, USA
PUBLICATION: American Journal of Physics, vol.48, no.5, p. 339-41, 0002-9505
May 1980
12 Refs..
- Citation 220 -----
TITLE: Approach to teaching thermodynamic equilibrium
AUTHOR: Weinstock, R.; Dept. of Phys. Oberlin Coll., Oberlin, OH, USA
PUBLICATION: American Journal of Physics, vol.47, no.12, p. 1088, 0002-9505
Dec. 1979
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- Citation 221 -----
TITLE: Utilization of low-grade thermal energy by using the clear
night sky as a heat sink
AUTHOR: Ellis, G.F.R.; Phys. Dept., Univ. of Alberta, Edmonton, Alta.,
Canada
PUBLICATION: American Journal of Physics, vol.47, no.11, p. 1010-11,
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TITLE: Revival of Black's experiment

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second laws
AUTHOR: Hoover, W.G.; Moran, B.; Dept. of Appl. Sci., Univ. of
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PUBLICATION: American Journal of Physics, vol.47, no.10, p. 851-6, 0002-9505
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TITLE: Simple C/sub p//C/sub v/ resonance apparatus suitable for the
physics teaching laboratory
AUTHOR: Smith, D.G.; School of Phys. & Molecular Sci., Univ. Coll. of
North Wales, Bangor, UK
PUBLICATION: American Journal of Physics, vol.47, no.7, p. 593-6, 0002-9505
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TITLE: Another derivation of the quantum virial theorem
AUTHOR: Gersch, H.A.; School of Phys., Georgia Inst. of Technol.,
Atlanta, GA, USA
PUBLICATION: American Journal of Physics, vol.47, no.6, p. 555-6, 0002-9505
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TITLE: Spatial Bose-Einstein condensation
AUTHOR: Masut, R.; Mullin, W.J.; Dept. of Phys. & Astron., Univ. of
Massachusetts, Amherst, MA, USA
PUBLICATION: American Journal of Physics, vol.47, no.6, p. 493-7, 0002-9505
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19 Refs..

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TITLE: Thermodynamic derivation of the equilibrium distribution
functions of statistical mechanics
AUTHOR: Stoeckly, B.; Dept. of Mech. & Environmental Engng., Univ. of
California, Santa Barbara, CA, USA
PUBLICATION: American Journal of Physics, vol.47, no.6, p. 491-2, 0002-9505
June 1979
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TITLE: Analogy between thermodynamics and mechanics
AUTHOR: Peterson, M.A.; Dept. of Phys., Amherst Coll., Amherst, MA, USA
PUBLICATION: American Journal of Physics, vol.47, no.6, p. 488-90, 0002-9505
June 1979
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TITLE: Comments on: undergraduate experiment on noise thermometry

Citation 230 -----
TITLE: Pressure-volume relations of a real gas
AUTHOR: Karas, R.H.; Davis, S.P.; Phys. & Astron. Dept., Sonoma State
Univ., Rohnert Park, CA, USA
PUBLICATION: American Journal of Physics, vol.47, no.5, p. 473-4, 0002-9505
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TITLE: Contemporary American physics fiction
AUTHOR: Friedman, A.J.; Lawrence Hall of Sci., Univ. of California,
Berkeley, CA, USA
PUBLICATION: American Journal of Physics, vol.47, no.5, p. 392-5, 0002-9505
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TITLE: Available energy via nonequilibrium thermodynamics
AUTHOR: Woollett, E.L.; Dept. of Phys. & Astron., California State
Univ., Long Beach, CA, USA
PUBLICATION: American Journal of Physics, vol.47, no.3, p. 250-8, 0002-9505
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TITLE: Catastrophe of the molecular field
AUTHOR: Williams, D.E.G.; Dept. of Phys., Univ. of Technol.,
Loughborough, UK
PUBLICATION: American Journal of Physics, vol.47, no.2, p. 156-60, 0002-9505
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TITLE: Critique of the treatment of work
AUTHOR: Canagaratna, S.G.; Dept. of Chem., Univ. of Ceylon, Peradeniya,
Sri Lanka
PUBLICATION: American Journal of Physics, vol.46, no.12, p. 1241-4,
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AUTHOR: Chang, K.N.; Cook, M.S.; Hamlyn, K.M.; Chaplin, R.L.; Dept. of
Phys. & Astron., Clemson Univ., Clemson, SC, USA
PUBLICATION: American Journal of Physics, vol.46, no.11, p. 1180-3,
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TITLE: Calculation of linear coefficients in irreversible processes by

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TITLE: Teaching the approach to thermodynamic equilibrium: Some
pictures that help
AUTHOR: Baierlein, R.; Dept. of Phys., Wesleyan Univ., Middletown, CT,
USA
PUBLICATION: American Journal of Physics, vol.46, no.10, p. 1042-5,
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TITLE: Figures of merit for energy conversion processes
AUTHOR: Rubin, M.H.; Dept. of Phys., Univ. of Maryland, Baltimore, MD,
USA
PUBLICATION: American Journal of Physics, vol.46, no.6, p. 637-9, 0002-9505
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TITLE: Remarks on negative absolute temperatures and Carnot cycles
AUTHOR: Dunning-Davies, J.; Dept. of Appl. Math., Univ. of Hull, Hull,
UK
PUBLICATION: American Journal of Physics, vol.46, no.5, p. 583-5, 0002-9505
May 1978
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TITLE: Measurement of thermoelectric effects at low temperature
AUTHOR: Guenault, A.M.; Lawson, N.S.; Veazey, S.D.; Dept. of Phys.,
Univ. of Lancaster, Lancaster, UK
PUBLICATION: American Journal of Physics, vol.46, no.4, p. 399-401,
0002-9505
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Citation 241 -----
TITLE: Quasi-Carnot cycles, negative Kelvin temperatures, and the laws
of thermodynamics
AUTHOR: Tykodi, R.J.; Dept. of Chem., Southeastern Massachusetts Univ.,
N.Dartmouth, MA, USA
PUBLICATION: American Journal of Physics, vol.46, no.4, p. 354-9, 0002-9505
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TITLE: Thermodynamic work on a harmonic oscillator
AUTHOR: Edmonds, J.D., Jr.; Dept. of Phys., Bucknell Univ., Lewisburg,
PA, USA
PUBLICATION: American Journal of Physics, vol.46, no.3, p. 289-90, 0002-9505
March 1978.

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Citation 244 -----
TITLE: Simple liquid nitrogen level probe
AUTHOR: McCoy, D.G.; Ballistic Res. Lab., Aberdeen Proving Ground, MD,
USA
PUBLICATION: American Journal of Physics, vol.46, no.2, p. 192, 0002-9505
Feb. 1978
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Citation 245 -----
TITLE: Undergraduate experiment on noise thermometry
AUTHOR: Kittel, P.; Hackleman, W.R.; Donnelly, R.J.; Dept. of Phys.,
Univ. of Oregon, Eugene, OR, USA
PUBLICATION: American Journal of Physics, vol.46, no.1, p. 94-100, 0002-9505
Jan. 1978
26 Refs..

Citation 246 -----
TITLE: A simplified version of Caratheodory thermodynamics
AUTHOR: Marshall, T.W.; Dept. of Math., Manchester Univ., Manchester,
UK
PUBLICATION: American Journal of Physics, vol.46, no.2, p. 136-7, 0002-9505
Feb. 1978
6 Refs..

Citation 247 -----
TITLE: The information-theoretic statistical mechanics of a system in
contact with a heat reservoir
AUTHOR: Bowers, R.G.; McKerrell, A.; Dept. of Appl. Math. & Theoretical
Phys., Univ. of Liverpool, Liverpool, UK
PUBLICATION: American Journal of Physics, vol.46, no.2, p. 138-42, 0002-9505
Feb. 1978
8 Refs..

Citation 248 -----
TITLE: Why does the Sun shine?
AUTHOR: Navenberg, M.; Weisskopf, V.F.; Div. of Natural Sci. Phys.,
Univ. of California, Santa Cruz, CA, USA
PUBLICATION: American Journal of Physics, vol.46, no.1, p. 23-31, 0002-9505
Jan. 1978
16 Refs..

Citation 249 -----
TITLE: EER, COP, and the second law efficiency for air conditioners
AUTHOR: Leff, H.S.; Teeters, W.D.; Dept. of Phys. Sci., Chicago State
Univ., Chicago, IL, USA
PUBLICATION: American Journal of Physics, vol.46, no.1, p. 19-22, 0002-9505
Jan. 1978
15 Refs..

Dec. 1977
11 Refs..

Citation 251 -----
TITLE: Concept of temperature without the zeroth law
AUTHOR: Home, D.; Dept. of Phys., Presidency Coll., Calcutta, India
PUBLICATION: American Journal of Physics, vol.45, no.12, p. 1203-5,
0002-9505
Dec. 1977
3 Refs..

Citation 252 -----
TITLE: Evolution of the black-body spectrum in the Friedmann universe
AUTHOR: Cooke, J.H.; Dept. of Phys., Univ. of Texas, Arlington, TX, USA
PUBLICATION: American Journal of Physics, vol.45, no.12, p. 1168-72,
0002-9505
Dec. 1977
16 Refs..

Citation 253 -----
TITLE: A simple demonstration on the freezing of the rotational energy
of molecular hydrogen
AUTHOR: Junod, A.; Muller, J.; Phys. Dept., Univ. de Geneve, Geneve,
Switzerland
PUBLICATION: American Journal of Physics, vol.45, no.10, p. 957-9, 0002-9505
Oct. 1977
3 Refs..

Citation 254 -----
TITLE: Einstein's comprehensive 1907 essay on relativity. II
AUTHOR: Schwartz, H.M.; Phys. Dept., Univ. of Arkansas, Fayetteville,
AR, USA
PUBLICATION: American Journal of Physics, vol.45, no.9, p. 811-17, 0002-9505
Sept. 1977
24 Refs..

Citation 255 -----
TITLE: The zilch cycle: an application of the first law of
thermodynamics
AUTHOR: Arrott, A.S.; Phys. Dept., Simon Fraser Univ., Burnaby, BC,
Canada
PUBLICATION: American Journal of Physics, vol.45, no.7, p. 672-3, 0002-9505
July 1977
2 Refs..

Citation 256 -----
TITLE: An inexpensive, proportional temperature control scheme (for
teaching)
AUTHOR: Whitehorn, M.A.; Harker, G.G., III.; Schmidt, R.L.; Chem.
Dept., Univ. of New Orleans, New Orleans, LA, USA
PUBLICATION: American Journal of Physics, vol.45, no.3, p. 312-13, 0002-9505
March 1977

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15 Refs..

Citation 258 -----
TITLE: Multisystem temperature equilibration and the second law (for
teachers)
AUTHOR: Leff, H.S.; Phys. Sci. Dept., Chicago State Univ., Chicago, IL,
USA
PUBLICATION: American Journal of Physics, vol.45, no.3, p. 252-4, 0002-9505
March 1977
10 Refs..

Citation 259 -----
TITLE: The beginning of quantum statistics: Planck's law and the light
quantum hypothesis
AUTHOR: Theimer, O.; Ram, B.; Bose, S.; New Mexico State Univ., Las
Cruces, NM, USA
PUBLICATION: American Journal of Physics, vol.44, no.11, p. 1056-7,
0002-9505
Nov. 1976
3 Refs..

Citation 260 -----
TITLE: On fundamental equations for thermodynamic systems (for physics
teachers)
AUTHOR: Hajj, F.Y.; Nat. Council Sci. Res., Beirut, Lebanon
PUBLICATION: American Journal of Physics, vol.44, no.11, p. 1116-18,
0002-9505
Nov. 1976
5 Refs..

Citation 261 -----
TITLE: Negative Kelvin temperatures
AUTHOR: Tykodi, R.J.; Dept. of Chem., Southeastern Massachusetts Univ.,
North Dartmouth, MA, USA
PUBLICATION: American Journal of Physics, vol.44, no.10, p. 997-8, 0002-9505
Oct. 1976
12 Refs..

Citation 262 -----
TITLE: Anomalies at negative Kelvin temperatures
AUTHOR: White, R.H.; Dept. of Phys., Univ. of Singapore, Singapore
PUBLICATION: American Journal of Physics, vol.44, no.10, p. 996, 0002-9505
Oct. 1976
0 Refs..

Citation 263 -----
TITLE: Remarks on Tykodi's note on negative Kelvin temperatures
AUTHOR: Danielian, A.; Dept. of Phys., Kings Coll., London, UK
PUBLICATION: American Journal of Physics, vol.44, no.10, p. 995, 0002-9505
Oct. 1976
2 Refs

PUBLICATION: American Journal of Physics, vol.44, no.10, p. 994-5, 0002-9505
Oct. 1976
5 Refs..

Citation 265 -----
TITLE: Using the ideal gas to illustrate the connection between the
Clausius and Boltzmann definitions of energy
AUTHOR: Nartonis, D.K.; Dept. of Phys., Utica Coll. of Syracuse Univ.,
Utica, NY, USA
PUBLICATION: American Journal of Physics, vol.44, no.10, p. 1008-9,
0002-9505
Oct. 1976
4 Refs..

Citation 266 -----
TITLE: Bose-Einstein condensation in a one-dimensional system due to
an attractive- delta impurity center
AUTHOR: Ioriatti, L.C., Jr.; Rose, S., Jr.; Hipolito, O.; Univ. de Sao
Paulo, Sao Paulo, Brazil
PUBLICATION: American Journal of Physics, vol.44, no.8, p. 744-8, 0002-9505
Aug. 1976
12 Refs..

Citation 267 -----
TITLE: Introductory experiment to determine the thermodynamic
efficiency of a household refrigerator
AUTHOR: Bartlett, A.A.; Dept. of Phys. & Astrophys., Univ. of Colorado,
Boulder, CO, USA
PUBLICATION: American Journal of Physics, vol.44, no.6, p. 555-9, 0002-9505
June 1976
5 Refs..

Citation 268 -----
TITLE: Reversibility-key to more efficient heating devices
AUTHOR: Plumb, L.R.; Dept. of Phys., California State Univ., Chico, CA,
USA
PUBLICATION: American Journal of Physics, vol.44, no.5, p. 485, 0002-9505
May 1976
1 Refs..

Citation 269 -----
TITLE: Nonequilibrium thermodynamic properties of dilute Maxwellian
gases
AUTHOR: Haley, S.B.; Smith, R.; Dept. of Phys., Florida Technol. Univ.,
Orlando, FL, USA
PUBLICATION: American Journal of Physics, vol.44, no.4, p. 370-6, 0002-9505
April 1976
15 Refs..

Citation 270 -----
TITLE: Blackbody spectrum and the interpretation of the quantum theory
AUTHOR: Theimer O.: Arts & Sci Res Center Las Cruces NM IISA

AUTHOR: Turner, L.E., Jr.; Dept. of Phys. & Computer Sci., Pacific
Union Coll., Angwin, CA, USA
PUBLICATION: American Journal of Physics, vol.44, no.1, p. 104-5, 0002-9505
Jan. 1976
1 Refs..

Citation 272 -----
TITLE: Remark on the equilibrium of moving systems
AUTHOR: Buchdahl, H.A.; Simpson, M.A.; Dept. of Theoretical Phys.,
Faculty of Sci., Australian Nat. Univ., Canberra, ACT,
Australia
PUBLICATION: American Journal of Physics, vol.43, no.12, p. 1041-5,
0002-9505
Dec. 1975
15 Refs..

Citation 273 -----
TITLE: Negative temperatures and negative dissipation
AUTHOR: Machlup, S.; Dept. of Phys., Case Western Reserve Univ.,
Cleveland, OH, USA
PUBLICATION: American Journal of Physics, vol.43, no.11, p. 991-5, 0002-9505
Nov. 1975
29 Refs..

Citation 274 -----
TITLE: Irreversibility, entropy production, and thermal efficiency
AUTHOR: Leff, H.S.; Jones, G.L.; Dept. of Phys. Sci., Chicago State
Univ., Chicago, IL, USA
PUBLICATION: American Journal of Physics, vol.43, no.11, p. 973-80,
0002-9505
Nov. 1975
13 Refs..

Citation 275 -----
TITLE: Second-order phase transitions: models and analogies
AUTHOR: Guyon, E.; Phys. Dept., Univ. of California, Los Angeles, CA,
USA
PUBLICATION: American Journal of Physics, vol.43, no.10, p. 877-81,
0002-9505
Oct. 1975
15 Refs..

Citation 276 -----
TITLE: On the average temperature of a small system
AUTHOR: Pyun, C.W.; Dept. of Chem., Lowell Technol. Inst., Lowell, MA,
USA
PUBLICATION: American Journal of Physics, vol.43, no.7, p. 649, 0002-9505
July 1975
1 Refs..

Citation 277 -----
TITLE: Astrophysics: an integrative course

Citation 278 -----
TITLE: Thermodynamics of a simple rubber-band heat engine
AUTHOR: Mullen, J.G.; Look, G.W.; Konkell, J.; Purdue Univ., West
Lafayette, IN, USA
PUBLICATION: American Journal of Physics, vol.43, no.4, p. 349-53, 0002-9505
April 1975
3 Refs..

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TITLE: Easily demonstrable relationship between the microscopic and
macroscopic theories of type II superconductivity
AUTHOR: Rochlin, G.I.; Univ. California, Berkeley, CA, USA
PUBLICATION: American Journal of Physics, vol.43, no.4, p. 335-9, 0002-9505
April 1975
14 Refs..

Citation 280 -----
TITLE: An attempt at a personalized course in thermodynamics
AUTHOR: Mullen, J.G.; Purdue Univ., West Lafayette, IN, USA
PUBLICATION: American Journal of Physics, vol.43, no.4, p. 354-60, 0002-9505
April 1975
8 Refs..

Citation 281 -----
TITLE: Negative Kelvin temperature: Some anomalies and a speculation
AUTHOR: Tykodi, R.J.; Southeastern Massachusetts Univ., North
Dartmouth, MA, USA
PUBLICATION: American Journal of Physics, vol.43, no.3, p. 271-3, 0002-9505
March 1975
5 Refs..

Citation 282 -----
TITLE: Efficiency of a Carnot engine at maximum output
AUTHOR: Curzon, F.L.; Ahlborn, B.; Univ. British Columbia, Vancouver,
BC, Canada
PUBLICATION: American Journal of Physics, vol.43, no.1, p. 22-4, 0002-9505
Jan. 1975.

Citation 283 -----
TITLE: Landau's choice of the critical-point exponent beta
AUTHOR: Sposito, G.; California State Coll., Sonoma, CA, USA
PUBLICATION: American Journal of Physics, vol.42, no.12, p. 1119-21,
0002-9505
Dec. 1974
10 Refs..

Citation 284 -----
TITLE: More on the equation of state for gases
AUTHOR: Wintle, H.J.; Queens Univ., Kingston, Ont., Canada
PUBLICATION: American Journal of Physics, vol.42, no.9, p. 794, 0002-9505
Sept. 1974
4 Refs

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3 Refs..

Citation 286 -----
TITLE: A relation between the second law of thermodynamics and quantum
mechanics
AUTHOR: Kivel, B.; Avco Everett Res. Labs. Inc., MA, USA
PUBLICATION: American Journal of Physics, vol.42, no.7, p. 606-8, 0002-9505
July 1974
4 Refs..

Citation 287 -----
TITLE: Statistical analysis of classical few-particle systems
AUTHOR: Olness, R.J.; Hoover, W.G.; Univ. California, Livermore, CA,
USA
PUBLICATION: American Journal of Physics, vol.42, no.7, p. 584-90, 0002-9505
July 1974.

Citation 288 -----
TITLE: Fluctuations in particle number in a grand canonical ensemble
of small systems
AUTHOR: Stephenson, J.; Univ. Alberta, Edmonton, Alta., Canada
PUBLICATION: American Journal of Physics, vol.42, no.6, p. 478-81, 0002-9505
June 1974.

Citation 289 -----
TITLE: Comment on blackbody radiation in small cavities
AUTHOR: Balkes, H.P.; Freie Univ., Berlin, West Germany
PUBLICATION: American Journal of Physics, vol.42, no.6, p. 505-7, 0002-9505
June 1974
23 Refs..

Citation 290 -----
TITLE: Comment on $E=h\nu$
AUTHOR: Silvert, W.; Dalhousie Univ., Halifax, NS, Canada
PUBLICATION: American Journal of Physics, vol.42, no.5, p. 429-30, 0002-9505
May 1974
3 Refs..

Citation 291 -----
TITLE: Simplified derivation of Wigner's quantum correction of
thermodynamics
AUTHOR: Harper, C.; Univ. California, Berkeley, CA, USA
PUBLICATION: American Journal of Physics, vol.42, no.5, p. 396-9, 0002-9505
May 1974.

Citation 292 -----
TITLE: Heat engines that use a gravitational field (postulated
educational devices)
AUTHOR: Kell, G.S.; Nat. Res. Council Canada, Ottawa, Ont., Canada
PUBLICATION: American Journal of Physics, vol.42, no.3, p. 209-13, 0002-9505

PUBLICATION: American Journal of Physics, vol.41, no.10, p. 1211-12,
0002-9505
Oct. 1973
4 Refs.

Citation 294 -----
TITLE: Comments on Professor C. Kittel's letter 'On the nonexistence
of temperature fluctuations in small systems'
AUTHOR: McFee, R.; Syracuse Univ., NY, USA
PUBLICATION: American Journal of Physics, vol.41, no.10, p. 1212, 0002-9505
Oct. 1973
2 Refs..

Citation 295 -----
TITLE: Demonstration of entropy and of the second law of
thermodynamics
AUTHOR: Zinman, W.G.
PUBLICATION: American Journal of Physics, vol.41, no.11, p. 1284-5,
0002-9505
Nov. 1973
3 Refs..

Citation 296 -----
TITLE: Comment on: 'An illustrative example for the undergraduate
thermodynamics curriculum'
AUTHOR: Reynolds, C.L., Jr.; Univ. Virginia, Charlottesville, VA, USA
PUBLICATION: American Journal of Physics, vol.41, no.7, p. 925-6, 0002-9505
July 1973
2 Refs..

Citation 297 -----
TITLE: A simple thermodynamic derivation of the quantum formula
 $\epsilon = h \nu$
AUTHOR: Motz, L.; Columbia Univ., NY, USA
PUBLICATION: American Journal of Physics, vol.41, no.8, p. 1016-17,
0002-9505
Aug. 1973
1 Refs..

Citation 298 -----
TITLE: Irreversible processes
AUTHOR: Sillescu, H.; Univ. Frankfurt, West Germany
PUBLICATION: American Journal of Physics, vol.41, no.5, p. 611-21, 0002-9505
May 1973.

Citation 299 -----
TITLE: A room temperature steam engine
AUTHOR: Marston, E.H.; Jensen, M.A.; Ramapo Coll. New Jersey, Mahwah,
NJ, USA
PUBLICATION: American Journal of Physics, vol.41, no.5, p. 726-7, 0002-9505
May 1973
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25 Refs..

- Citation 301 -----
TITLE: 'Gibbs paradox' paradox
AUTHOR: Casper, B.M.; Freier, S.; Carleton Coll., Northfield, MN, USA
PUBLICATION: American Journal of Physics, vol.41, no.4, p. 509-11, 0002-9505
April 1973.
- Citation 302 -----
TITLE: On the equation of state for gases
AUTHOR: Tykodi, R.J.; Hummel, E.P.; Southeastern Massachusetts Univ.,
North Dartmouth, MA, USA
PUBLICATION: American Journal of Physics, vol.41, no.3, p. 340-3, 0002-9505
March 1973.
- Citation 303 -----
TITLE: On fluctuations of temperature in small systems
AUTHOR: McFee, R.; Syracuse Univ., NY, USA
PUBLICATION: American Journal of Physics, vol.41, no.2, p. 230-4, 0002-9505
Feb. 1973
4 Refs..
- Citation 304 -----
TITLE: Instructional uses of the computer: An investigation of
probability, temperature, and entropy
AUTHOR: Grant, J.R.; Emory & Henry Coll., VA, USA
PUBLICATION: American Journal of Physics, vol.41, no.2, p. 269-70, 0002-9505
Feb. 1973
1 Refs..
- Citation 305 -----
TITLE: Concerning the absolute temperature function
AUTHOR: Buchdahl, H.A.; Australian Nat. Univ., Canberra, Australia
PUBLICATION: American Journal of Physics, vol.41, no.1, p. 98-103, 0002-9505
Jan. 1973
13 Refs..
- Citation 306 -----
TITLE: On the validity of Kirchhoff's law in a nonequilibrium
environment
AUTHOR: Burkhard, D.G.; Lochhead, J.V.S.; Penchina, C.M.; Univ.
Georgia, Athens, GA, USA
PUBLICATION: American Journal of Physics, vol.40, no.12, p. 1794-8,
0002-9505
Dec. 1972
15 Refs..
- Citation 307 -----
TITLE: A new derivation of the virial expansion
AUTHOR: Mullin, W.J.; Univ. Massachusetts, Amherst, MA, USA
PUBLICATION: American Journal of Physics, vol 40, no 10, p 1473-6

laboratory
AUTHOR: Onn, D.G.; Gagne, R.M.; Hofmann, M.P.; Univ. Delaware, Newark,
DE, USA
PUBLICATION: American Journal of Physics, vol.40, no.10, p. 1517-23,
0002-9505
Oct. 1972.

Citation 309 -----
TITLE: Undergraduate experiment on low-temperature dependence of the
conductivity of copper wire
AUTHOR: Dasheiff, R.M.; Risk, W.S.; Univ. Maryland, College Park, MD,
USA
PUBLICATION: American Journal of Physics, vol.40, no.10, p. 1489-92,
0002-9505
Oct. 1972
4 Refs..

Citation 310 -----
TITLE: An illustrative example for the undergraduate thermodynamics
curriculum
AUTHOR: Sevenich, R.A.; Univ. Wisconsin-Platteville, WI, USA
PUBLICATION: American Journal of Physics, vol.40, no.9, p. 1294-9, 0002-9505
Sept. 1972.

Citation 311 -----
TITLE: A 'medical physics' course based upon hospital field experience
AUTHOR: Onn, D.G.; Univ. Delaware, Newark, DE, USA
PUBLICATION: American Journal of Physics, vol.40, no.8, p. 1147-52,
0002-9505
Aug. 1972
9 Refs..

Citation 312 -----
TITLE: The Martini perpetual motion machine: a semiprogrammed problem
AUTHOR: Brigman, G.H.; Olivetti Corp. America, Fort Worth, TX, USA
PUBLICATION: American Journal of Physics, vol.40, no.7, p. 1001-3, 0002-9505
July 1972.

Citation 313 -----
TITLE: Green's function treatment of short linear Heisenberg chains
AUTHOR: Unruh, H., Jr.; Wichita State Univ., KS, USA
PUBLICATION: American Journal of Physics, vol.40, no.6, p. 873-7, 0002-9505
June 1972.

Citation 314 -----
TITLE: Research project for undergraduates: ionic thermoconductivity
in dielectrics
AUTHOR: Fuller, R.M.; Fuller, R.G.; Gustavus Adolphus Coll., St. Peter,
MN, USA
PUBLICATION: American Journal of Physics, vol.40, no.6, p. 883-7, 0002-9505
June 1972.

Citation 316 -----
TITLE: On renormalized Einstein phonons. II. The diagrammatic method
and Helmholtz free energy
AUTHOR: Shukla, R.C.; Muller, E.R.; Brock Univ., St. Catharines, Ont.,
Canada
PUBLICATION: American Journal of Physics, vol.40, no.4, p. 544-9, 0002-9505
April 1972.

Citation 317 -----
TITLE: Chemical fluid mechanics
AUTHOR: MacRea, D.
PUBLICATION: American Journal of Physics, vol.40, no.4, p. 603-7, 0002-9505
April 1972.

Citation 318 -----
TITLE: Introduction to the thermodynamics of biopolymer growth
AUTHOR: Kittel, C.; Univ. California, Berkeley, CA, USA
PUBLICATION: American Journal of Physics, vol.40, no.1, p. 60-2, 0002-9505
Jan. 1972
10 Refs..

Citation 319 -----
TITLE: Thermodynamic description of materials at high pressures
AUTHOR: Davis, R.O.; Univ. New Mexico, Albuquerque, NM, USA
PUBLICATION: American Journal of Physics, vol.40, no.2, p. 321-6, 0002-9505
Feb. 1972
14 Refs..

Citation 320 -----
TITLE: Charge-carrier equilibrium in semiconductors according to the
mass-action law
AUTHOR: Christy, R.W.; Dartmouth Coll., Hanover, NH, USA
PUBLICATION: American Journal of Physics, vol.40, no.1, p. 40-5, 0002-9505
Jan. 1972.

Citation 321 -----
TITLE: Equivalence of the zeroth and second laws of thermodynamics
AUTHOR: Luckhardt, S.C.; Kessler, J.O.; Univ. Arizona, Tucson, AZ, USA
PUBLICATION: American Journal of Physics, vol.39, no.12, p. 1496-8,
0002-9505
Dec. 1971.

Citation 322 -----
TITLE: Some uncommon thermodynamic potentials and the 'thermodynamic
equations of state'
AUTHOR: Gordon, R.P.; Upsala Coll., East Orange, NJ, USA
PUBLICATION: American Journal of Physics, vol.39, no.11, p. 1295-9,
0002-9505
Nov. 1971.

- Citation 324 -----
TITLE: Notes on the thermodynamics of dielectrics
AUTHOR: Leupold, H.A.; US Army Electronics Command, Fort Monmouth, NJ,
USA
PUBLICATION: American Journal of Physics, vol.39, no.9, p. 1099, 0002-9505
Sept. 1971
- Citation 325 -----
TITLE: Perpetual motion of the Zeroth kind
AUTHOR: Wangsness, R.K.; Univ. Arizona, Tucson, AZ, USA
PUBLICATION: American Journal of Physics, vol.39, no.8, p. 898-900,
0002-9505
Aug. 1971.
- Citation 326 -----
TITLE: Relativistic thermodynamics
AUTHOR: Callen, H.; Horwitz, G.; Hebrew Univ. Jerusalem, Israel
PUBLICATION: American Journal of Physics, vol.39, no.8, p. 938-47, 0002-9505
Aug. 1971
12 Refs..
- Citation 327 -----
TITLE: Undergraduate experiment on rms values
AUTHOR: Lonc, W.P.; Saint Mary's Univ., Halifax, NS, Canada
PUBLICATION: American Journal of Physics, vol.39, no.8, p. 957-9, 0002-9505
Aug. 1971.
- Citation 328 -----
TITLE: Self-rectification in diodes and the second law of
thermodynamics
AUTHOR: McFee, R.; Syracuse Univ., NY, USA
PUBLICATION: American Journal of Physics, vol.39, no.7, p. 814-20, 0002-9505
July 1971.
- Citation 329 -----
TITLE: Measurement objectives in plasma physics
AUTHOR: Menkes, J.; Univ. Colorado, Boulder, CO, USA
PUBLICATION: American Journal of Physics, vol.39, no.6, p. 664-74, 0002-9505
June 1971.
- Citation 330 -----
TITLE: Expansion of nonreacting and reacting ideal gases between
interconnected chambers
AUTHOR: Penner, S.S.; Davidor, W.; Sulzmann, K.G.P.; Univ. California,
San Diego, La Jolla, CA, USA
PUBLICATION: American Journal of Physics, vol.39, no.5, p. 579-80, 0002-9505
May 1971.
- Citation 331 -----

Citation 332 -----
TITLE: Demography and thermodynamics
AUTHOR: Fein, E.; Northeast Utilities Service Co., Hartford, CT, USA
PUBLICATION: American Journal of Physics, vol.38, no.12, p. 1373-9,
0002-9505
Dec. 1970.

Citation 333 -----
TITLE: Paragas
AUTHOR: Ben-Abraham, S.I.; Inst. Tecnol. Aeronautica, Sao Paulo, Brazil
PUBLICATION: American Journal of Physics, vol.38, no.11, p. 1335-4,
0002-9505
Nov. 1970
13 Refs..

Citation 334 -----
TITLE: Absolutely stable and metastable thermodynamic states of a
magnetic model exhibiting a first-order phase transition
AUTHOR: Kaplan, J.I.; Stenschke, H.; Battelle Memorial Inst., Columbus,
OH, USA
PUBLICATION: American Journal of Physics, vol.38, no.11, p. 1323-6,
0002-9505
Nov. 1970.

Citation 335 -----
TITLE: Bernoulli Effect and kinetic theory experimentally
AUTHOR: Brown, J.B.; Univ. Canterbury, UK
PUBLICATION: American Journal of Physics, vol.38, no.10, p. 1254-5,
0002-9505
Oct. 1970.

Citation 336 -----
TITLE: Polarization of thermal radiation in a symmetric cavity
AUTHOR: Boudreau, R.D.; Deseret Test Center, Fort Douglas, UT, USA
PUBLICATION: American Journal of Physics, vol.38, no.10, p. 1221-4,
0002-9505
Oct. 1970.

Citation 337 -----
TITLE: General Born diagram and Legendre transformation
AUTHOR: Chien-Chung Cheng; Northwestern Coll., Orange City, IA, USA
PUBLICATION: American Journal of Physics, vol.38, no.8, p. 956-8, 0002-9505
Aug. 1970.

Citation 338 -----
TITLE: The parallel plate capacitor as a model for thermodynamic
reasoning
AUTHOR: Shear, D.B.; Univ. Missouri, Columbia, MO, USA
PUBLICATION: American Journal of Physics, vol.38, no.7, p. 929-31, 0002-9505
July 1970.

- Citation 340 -----
TITLE: The porous plug experiment. A lot of mileage on a little gas
AUTHOR: Tykodi, R.J.; Southeastern Mass. Univ., North Dartmouth, MA,
USA
PUBLICATION: American Journal of Physics, vol.38, no.5, p. 586-9, 0002-9505
May 1970
10 Refs..
- Citation 341 -----
TITLE: When does a point on a thermodynamic diagram represent a unique
state
AUTHOR: Thomsen, J.S.; Johns Hopkins Univ., Baltimore, MD, USA
PUBLICATION: American Journal of Physics, vol.38, no.5, p. 560-3, 0002-9505
May 1970.
- Citation 342 -----
TITLE: Sharpening Bridgemen's resolution of the Gibbs paradox
AUTHOR: Boyer, T.H.; Univ. Maryland, College Park, MD, USA
PUBLICATION: American Journal of Physics, vol.38, no.6, p. 771-3, 0002-9505
June 1970.
- Citation 343 -----
TITLE: Some applications of detailed balancing
AUTHOR: Oster, L.; Univ. Colorado, Boulder, CO, USA
PUBLICATION: American Journal of Physics, vol.38, no.6, p. 754-61, 0002-9505
June 1970.
- Citation 344 -----
TITLE: Information theory and the approach to equilibrium
AUTHOR: Robertson, H.S.; Huerta, M.A.; Univ. Miami, Coral Gables, FL,
USA
PUBLICATION: American Journal of Physics, vol.38, no.5, p. 619-30, 0002-9505
May 1970.
- Citation 345 -----
TITLE: Thermoelectric power experiment for the advanced laboratory
AUTHOR: Greenslade, T.B., Jr.; Kenyon Coll. Gambier, OH, USA
PUBLICATION: American Journal of Physics, vol.38, no.4, p. 480-6, 0002-9505
April 1970.
- Citation 346 -----
TITLE: Lorentz transformation of thermodynamic quantities
AUTHOR: Yuen, C.K.; Univ. Toronto, Ont., Canada
PUBLICATION: American Journal of Physics, vol.38, no.2, p. 246-52, 0002-9505
Feb. 1970.
- Citation 347 -----
TITLE: Notes on the thermodynamics of paramagnets
AUTHOR: Leupold, H.A.; Univ., California, Livermore, CA, USA
PUBLICATION: American Journal of Physics, vol 37, no 10, p. 1047-54

AUTHOR: Bowley, W.W.; Univ. Connecticut, Storrs, CT, USA
PUBLICATION: American Journal of Physics, vol.37, no.10, p. 1066-7,
0002-9505
Oct. 1969.

Citation 349 -----
TITLE: Engine efficiencies and the second law of thermodynamics
AUTHOR: Tobin, M.C.; Univ. Bridgeport, CT, USA
PUBLICATION: American Journal of Physics, vol.37, no.11, p. 1115-17,
0002-9505
Nov. 1969.

Citation 350 -----
TITLE: Designing an 'acoustic suspension' speaker system in the
general physics laboratory: a 'divergent' experiment
AUTHOR: Horton, P.B.; Phillips Univ., Enid, OK, USA
PUBLICATION: American Journal of Physics, vol.37, no.11, p. 1100-3,
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