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Round table on open problems in non-equilibrium statistical physics... - Froehlich  
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of irreversible phenomena, we have to inquire into some paradigms used in the present-day physics, for example, the complete separation of a system from its surroundings. In contrast to equilibrium statistical physics, nonequilibrium statistical physics is only rarely part of current courses in theoretical physics. We are at present not

*Nonequilibrium Statistical Physics*

While systems at equilibrium are treated in a unified manner through the partition function formalism, the statistical physics of out-of-equilibrium systems covers a large variety of situations that are often without apparent connection.

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Cite this article. Desai, R.C. Noëlle Pottier: Nonequilibrium Statistical Physics, Linear Irreversible Processes. J Stat Phys 142, 439-440 (2011). <https://doi.org> ...

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Professor Röpke has authored over 400 scientific publications on quantum statistics, nonequilibrium statistical mechanics, plasma physics and nuclear theory, including several monographs, and he received different awards. He is a member of the Saxonian Academy of Sciences and external member of the Max-Planck Society.

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"An extremely thorough, complete and well

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written reference on all well established aspects of nonequilibrium statistical physics and corresponding linear irreversible processes. The book grew out of lectures given over many years at the graduate level in Paris, and is very pedagogical, providing cases and easily accessible knowledge in well written chapters."

*Nonequilibrium Statistical Physics: Linear Irreversible ...*

Non-equilibrium thermodynamics is a branch of thermodynamics that deals with physical systems that are not in thermodynamic equilibrium but can be described in terms of variables that represent an extrapolation of the variables used to specify the system in thermodynamic equilibrium. Non-equilibrium thermodynamics is concerned with transport processes and with the rates of chemical reactions. It relies on what may be thought of as more or less nearness to thermodynamic equilibrium. Almost all sy

*Non-equilibrium thermodynamics - Wikipedia*

Noëlle Pottier: Nonequilibrium Statistical Physics, Linear Irreversible Processes Desai, Rashmi 2011-01-04 00:00:00 J Stat Phys (2011) 142: 439-440 DOI 10.1007/s10955-010-0114-6  
Noëlle Pottier: Nonequilibrium Statistical Physics, Linear Irreversible Processes Oxford University Press, 2010 Rashmi C. Desai  
Received: 9 December 2010 / Accepted: 13 December 2010 / Published online: 4 January

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This book presents the fundamentals of irreversible thermodynamics for nonlinear transport processes in gases and liquids, as well as for generalized hydrodynamics extending the classical hydrodynamics of Navier, Stokes, Fourier, and Fick. Together with its companion volume on nonrelativistic contexts, it provides a comprehensive picture of the relativistic covariant kinetic theory of gases ...

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*Kinetic Theory of Nonequilibrium Ensembles, Irreversible ...*

We show that the nonlinear scattering theory, in both classical and quantum mechanics, sets the bound  $\mathcal{Q}=3/8$  when approaching the Carnot efficiency. On the other hand, interacting, nonintegrable, and momentum-conserving systems can achieve the value  $\mathcal{Q}=1/2$ , which is the universal upper bound in linear response.

*Phys. Rev. E 102, 040103(R) (2020) - Power, efficiency ...*

Why Irreversible ¶ The reason that a system is irreversible is because we've lost information. In other words, the correlation function of time is short as the any system would be coupled to the reservoir. So any system would transfer information in and out into the reservoir and the information just dissipates deep into the reservoir.

*Important Questions of Statistical Mechanics - Statistical ...*

Irreversible thermodynamics is a division of physics which studies the general regularities in transport phenomena (heat transfer, mass transfer, etc.) and their relaxation (transition from nonequilibrium systems to the thermodynamical equilibrium state).

*IRREVERSIBLE THERMODYNAMICS - Thermopedia*

The non-equilibrium statistical



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thermodynamics aims to describe, in a unifying manner, irreversible phenomena, including nonequilibrium steady states and open systems. The workable statistical-mechanical theory of transport processes, in fluids and solids, should maintain these two aspects [ 1 , 2 , 3 ]:

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