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Mechanics I -

Chris Jarzynski

Brownian motion

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equilibrium
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No Turning Back:
The
Nonequilibrium
Statistical
Thermodynamics
of becoming (and
remaining) Life-
Like Brownian
motion and non-
equilibrium

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examples
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equilibrium
statistical
mechanics (2017)
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Blockchain
Explained for
Beginners Linear
vs Nonlinear~~

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Notes

*Understanding
hydrodynamic
turbulence on
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statistical
mechanics (2017)*

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Thermodynamics
& Kinetics,
Spring 2008~~

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*Uncertainty
visualization*

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\u0026amp; PBS

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Time *NeurIPS*

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Prosen (2019)
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Cellular

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*Automata and
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Mechanics* **Carnot
efficiency in an
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**process by
Hyunggyu Park**
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Thermodynamics
for Engineers 01

Lecture 21:
Statistical
mechanics of an
ideal gas

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Mechanics III -
Chris Jarzynski*

Mod-01 Lec-01

Recapitulation
of equilibrium
statistical
mechanics

Round table on
open problems in
non-equilibrium
statistical
physics... -

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Froehlich

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Irreversible

of irreversible
phenomena, we

have to inquire
into some

paradigms used
in the present-
day physics, for
example, the
complete

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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

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at present not

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Physics

While systems at
equilibrium are
treated in a

unified manner
through the
partition
function

formalism, the
statistical

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Physics of out-
of-equilibrium
systems covers a
large variety of
situations that
are often
without apparent
connection.

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Description.

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439–440 (2011).
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constructing of
Gibbs
microcanonic
distribution

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corresponds to imposing the additional condition of the equiprobable distribution of all possible microstates.

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[Noëlle Pottier]

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are treated in a
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physics : linear
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Linear

Irreversible

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Description.

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large variety of situations that are often without apparent connection. This book proposes a unified perspective on the whole set of systems near equilibrium: it brings out the profound unity of the laws

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Professor Röpke
has authored

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over 400
scientific
publications on
quantum
statistics,
nonequilibrium
statistical
mechanics,
plasma physics
and nuclear
theory,
including
several
monographs, and

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he received
different
awards. He is a
member of the
Saxonian Academy
of Sciences and
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book grew out of
lectures given
over many years
at the graduate
level in Paris,
and is very
pedagogical,
providing cases
and easily
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knowledge in
well written
chapters."

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Non-equilibrium thermodynamics is a branch of thermodynamics that deals with physical systems that are not in thermodynamic equilibrium but can be described

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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

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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*

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Desai,
Rashmi

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Phys (2011) 142:
439–440 DOI 10.1
007/s10955-010-0
114-6 Noëlle
Pottier:

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This book

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presents the
fundamentals of
irreversible
thermodynamics
for nonlinear
transport
processes in
gases and
liquids, as well
as for
generalized
hydrodynamics
extending the
classical

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hydrodynamics of
Navier, Stokes,
Fourier, and
Fick. Together
with its
companion volume
on
nonrelativistic
contexts, it
provides a
comprehensive
picture of the
relativistic
covariant

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kinetic theory
of gases . . .

*Kinetic Theory
of*

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Ensembles,
Irreversible . . .*

We show that the
nonlinear
scattering
theory, in both
classical and
quantum

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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}

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$Q\} = 1/2$, which
is the universal
upper bound in
linear response.

Processes

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

Why Irreversible

¶ The reason
that a system is
irreversible is
because we've

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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

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the information
just dissipates
deep into the
reservoir.

Processes

*Important
Questions of
Statistical*

*Mechanics –
Statistical ...*

Irreversible
thermodynamics
is a division of
physics which

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Studies the
general
regularities in
transport
phenomena (heat
transfer, mass
transfer, etc.)
and their
relaxation
(transition from
nonequilibrium
systems to the
thermodynamical
equilibrium

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state).

Physics Linear

*IRREVERSIBLE
THERMODYNAMICS -*

Thermopedia

The non-
equilibrium
statistical
thermodynamics
aims to
describe, in a
unifying manner,
irreversible
phenomena,

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including
nonequilibrium
steady states
and open
systems. The
workable statist
ical-mechanical
theory of
transport
processes, in
fluids and
solids, should
maintain these
two aspects [1

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