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my series on \"An
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views When we
talk about ,
energy , flowing
between
systems, we**

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**think of , heat ,
and work. , Heat
, is , energy ,
that flows due to
the temperature**

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Permutations

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and

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views This is a

sort of side

discussion on

Permutations

and

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**Combinations, or
as I like to put it,
how to count in
probability
theory.**

**[2.4 Large
Systems
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**2.4 Large
Systems**

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views What
happens when
we use numbers
so large that
calculating the
factorial is
impossible? In
this section, I**

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**cover some
behaviors**

**[1.1 Thermal
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minutes 4,173
views Before we
can talk about ,
thermodynamics
, , we need a
good definition
of temperature.
Let's talk about
how we can
measure

3.2 Entropy and

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minutes 1,956
views We've
seen how
temperature and**

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**entropy relate,
so now let's look
at how , heat ,
and entropy are
related. It all
comes down to
the**

**[2.6 Entropy
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2.6 Entropy
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views Having
experience with
calculating
multiplicities,
let's get to the
definition of
Entropy. We'll
calculate entropy**

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**for Einstein
Solids**

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views Although
we can't
calculate the
force on each
particle as it
moves, nor can
we calculate the
force on the
center of mass of
a**

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**minutes 1,940
views In order to
begin the long
journey towards
understanding
entropy, and
really,
temperature,
let's look at
probabilities of
coin flips.**

1.2 The Ideal Gas (Thermal

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views In this
video, I
introduce the
Ideal Gas law,**

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**along with a
simple model
that allows us to
relate the
average kinetic ,
energy , of**

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Model of a Solid
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2.2 The Einstein

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views Let's
consider a more
real-life example
-- an Einstein
Solid. In an
Einstein Solid,**

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**we have
particles that are
trapped in a
quantum**

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are some of my**

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impressive tool
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, Studio! This
episode of Crash
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**year ago 22
minutes 1,235
views With a
solid
understanding of
entropy, we can
now define
temperature
mathematically.
Back in section
1.1, we said that**

1.6 Heat Capacities (1/2)

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minutes 1,093
views We often
want to compare**

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**the , heat ,
flowing into a
system with its
change in
temperature.
There are two
types of , heat ,
capacities:**

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views When we

have two

systems that

interact with

each other, we

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**can count the
macrostates for
each and the
macrostates for
the total**

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1.7 Rates of
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views In ,
thermodynamics
, , we typically
only concern
ourselves with
the equilibrium**

**state. However,
using a bit of
kinetic theory,
we can**

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of Energy
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seconds 2,444
views Energy ,
will be
distributed
equally among
the quadratic
degrees of
freedom.
Particles may**

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**rotate or vibrate,
with certain
limitations**

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views Assuming
an ideal gas, we
can calculate
what would
happen under
two types of
compression:
isothermal
(temperature
and**

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minutes, 56
seconds 395
views What if we
were to consider
momentum
instead of ,
energy , ? This
gives us the
property of
viscosity. The
homework
problem is to

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**minutes 729
views When the
system is
undergoing a
phase
transformation,
the temperature
will remain
constant and so
the , heat ,
capacity is**

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