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Molecular state. In
cells, this energy is
provided by ATP losing
a phosphorous atom
and converting to ADP.
It seems insignificant,
but at the nanoscale
this minuscule jump
burns at 7000 degrees.
It is these fiery sparks
of forgetfulness that
drive life's ratchet and
make life possible.

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package strands of
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for himself a
substantial task: to
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of life, along with its
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In Life's Ratchet,
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nanoscale. The

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complex molecules of
our cells can rightfully

be called “molecular
machines,” or

“nanobots”; these

machines, unlike any
other, work

autonomously to

create order out of

chaos.

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Peter Hoffman is a
physicist and materials
scientist, and he brings
those perspectives and
sensibilities to the
description of how life
converts chemical
energy into order and
motion.

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... Peter M Hoffmann

As the title suggests, Life's Ratchet tackles the physical processes that allow life to create order from chaos. It reflects heavily on entropy and maintains a focus at the nanoscale, the inner workings of a cell. How a cell manipulates and

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utilizes energy, and the unique protein-based machines that operate a stunning complex of processes.

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Hoffmann distinguishes between macroscopic machines created to serve a specific purpose and the “autonomous [molecular] machines” found in life. He believes that the key to their functioning is the

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relationship between
different kinds of
energy at the
nanoscale level, where
different kinds of
energy (chemical,
electrostatic, thermal,
etc.) operate on the
same scale.

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