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Symmetry. This article

describes symmetry

from three

perspectives: in

mathematics, including

geometry, the most

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familiar type of symmetry for many people; in science and nature; and in the arts, covering architecture, art and music . The opposite of symmetry is asymmetry .

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Symmetry rules. The laws of nature are also symmetrical with respect to rotation -

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physics has no

preferred direction in

space. If it were not for

this remarkable

symmetry of the laws

under translation and

rotation,...

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Symmetry) June 15,

2018 When we use

science to describe and

understand the world

around us, we are in

essence grasping

nature through

symmetry.

Emphasizing the

concepts, this book

leads the reader

coherently and

comprehensively into

the fertile field of

symmetry and its

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In geometry, an object exhibits symmetry if it looks the same after a transformation, such as reflection or rotation.

Symmetry is the underlying mathematical principle behind all patterns and is important in art (used in architecture, pottery, quilting and

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rug making),

mathematics (relating

to geometry,...

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sophisticated

monograph based on

the special personal

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theoretical physicist

RosenThe

fundamental notion is

that nature may be

broken into isolated

systems, and that

nature may be

understood as the sum

of its parts. ...

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properties of matter are described by physical laws: the strength of the forces in the atom, the behaviour of electrons, the strength of gravity and so on. It is possible to form symmetrical crystal lattices only because the laws of physics apply equally in any direction, time or place in space.

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Symmetry (physics) In physics, a symmetry of a physical system is a physical or mathematical feature of the system (observed or intrinsic)

that is preserved or

remains unchanged

under some

transformation . A

family of particular

transformations may

be continuous (such as

rotation of a circle) or

discrete (e.g.,...

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Symmetry rules : how

science and nature are

founded on symmetry.

[Joe Rosen] -- When we

use science to describe

and understand the

world around us, we

are in essence

grasping nature

through symmetry. In

fact, modern

theoretical physics

suggests that

symmetry is a, if not

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From the
reviews: "Symmetry
Rules is a sophisticated
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the special personal
perspective of
theoretical physicist
Rosen The
fundamental notion is
that nature may be
broken into isolated
systems, and that
nature may be

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science is symmetry or even that nature is symmetry? This article presents a brief review of ideas presented in detail in Rosen [1]. Symmetry manifests itself at the foundation of science in (at least) seven forms. These are: 1, reproducibility,

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2. predictability, 3. reduction, 4. symmetry of evolution, 5. symmetry of states, 6. gauge symmetry, 7. symmetry at the foundation of quantum theory.

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opposite way. The concept of asymmetry and the definition of symmetry are presented with new in-

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sights in this chapter.

Chapters 2 and 3

present the topic of
science as founded on
symmetry and

symmetry in physics.

For example, suppose
there is another

universe. One can

predict that $1+1=2$ is

still definitely true and

~~Symmetry at the~~

~~Foundation of Science~~

~~and Nature~~

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required that the orbits

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would be circular. In fact, it is not the shape of the orbit, but Newton's law of gravity that is symmetrical under rotations. This means that the orbits can be (and indeed are!) elliptical, but that the orbits can have any orientation in space (figure 6).

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Spontaneous processes
of all kinds of

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Symmetry. When we

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and understand the

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through symmetry. In

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fact, modern
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principle of nature.
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concepts, this book
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