

Matter: the Building Blocks of the Elements (Paperback)

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Reviews

Complete information for publication enthusiasts. I have go through and that i am confident that i will gonna go through once more again in the future. Its been printed in an exceptionally basic way and is particularly just following i finished reading through this book by which basically altered me, alter the way i really believe. (Angela Kuhn)

MATTER: THE BUILDING BLOCKS OF THE ELEMENTS (PAPERBACK)



Createspace Independent Publishing Platform, United States, 2015. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Before the 20th century, the term matter included ordinary matter composed of atoms and excluded other energy phenomena such as light or sound. This concept of matter may be generalized from atoms to include any objects having mass even when at rest, but this is ill-defined because an object s mass can arise from its (possibly massless) constituents motion and interaction energies. Thus, matter does not have a universal definition, nor is it a fundamental concept in physics today. Matter is also used loosely as a general term for the substance that makes up all observable physical objects. All the objects from everyday life that we can bump into, touch or squeeze are composed of atoms. This atomic matter is in turn made up of interacting subatomic particles-usually a nucleus of protons and neutrons, and a cloud of orbiting electrons. Typically, science considers these composite particles matter because they have both rest mass and volume. By contrast, massless particles, such as photons, are not considered matter, because they have neither rest mass nor volume. However, not all particles with rest mass have a classical volume, since fundamental particles such as quarks and leptons (sometimes equated with matter) are considered point particles with no effective size or volume. Nevertheless, quarks and leptons together make up ordinary matter, and their interactions contribute to the effective volume of the composite particles that make up ordinary matter commonly exists in four states (or phases): solid, liquid and gas, and plasma. However, advances in experimental techniques have revealed other previously theoretical phases, such as Bose-Einstein condensates and fermionic condensates. A focus on an elementary-particle view of matter also leads to new phases of matter,...

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