

# Download Relativistic Theories Of Materials

The theory of relativity usually encompasses two interrelated theories by Albert Einstein: special relativity and general relativity. Special relativity applies to elementary particles and their interactions, describing all their physical phenomena except gravity. General relativity explains the law of gravitation and its relation to other forces of nature. In physics, relativistic quantum mechanics (RQM) is any Poincaré covariant formulation of quantum mechanics (QM). This theory is applicable to massive particles propagating at all velocities up to those comparable to the speed of light  $c$ , and can accommodate massless particles. The theory has application in high energy physics, particle physics and accelerator physics, as well as atomic ... In 1923, while still a graduate student at the University of Paris, Louis de Broglie published a brief note in the journal *Comptes rendus* containing an idea that was to revolutionize our understanding of the physical world at the most fundamental level. He had been troubled by a curious "contradiction" arising from Einstein's special theory of relativity. If you are interested in using quantitative physical methods to understand relativistic and high-energy processes in the Universe, and already have a good background in OU level 2 maths, physics and astronomy, then this is the module for you. - Relativistic Theories Of Materials