

Acceleration Problems

Proper acceleration contrasts with coordinate acceleration, which is dependent on choice of coordinate systems and thus upon choice of observers (see three-acceleration in special relativity). There are two types of Fermi acceleration: first-order Fermi acceleration (in shocks) and second-order Fermi acceleration (in the environment of moving magnetized gas clouds). In both cases the environment...

Academic acceleration It has been described as a "fundamental need" for gifted students as it provides students with level-appropriate material. Students who would benefit from academic acceleration are moving through an educational program at a rate faster or at an age younger than is typical. Acceleration places them ahead of where they would be in the regular school curriculum. Students who would benefit from acceleration do not necessarily need to be identified as gifted in a particular subject. The practice occurs worldwide. The bulk of educational research on academic acceleration has been within the United States. Academic acceleration is moving students through an educational program at a rate faster or at an age younger than is typical

In August 2010, the Board on Physics and Astronomy of the National Science Foundation (NSF) recommended the Wide Field Infrared Survey Telescope (WFIRST) mission, a renamed JDEM-Omega proposal which has superseded SNAP, Destiny, and Advanced Dark Energy Physics Telescope (ADEPT), as the highest priority for development in the decade around 2020. This would be a 1.5-meter telescope with a 144-megapixel HgCdTe focal plane array, located at the Sun-Earth L2 Lagrange point. The expected cost is around US\$1.6 billion.

Fermi acceleration This is thought to be the primary mechanism by which particles gain non-thermal energies in astrophysical shock waves. Fermi acceleration, sometimes referred to as diffusive shock acceleration (a subclass of Fermi acceleration), is the acceleration that charged particles undergo when being repeatedly reflected, usually by a magnetic mirror (see also Centrifugal mechanism of acceleration). It receives its name from physicist Enrico Fermi who first proposed the mechanism. It plays a very important role in many astrophysical models, mainly of shocks including solar flares and supernova remnants

Sudden unintended acceleration The US National Highway Traffic Safety Administration estimates 16,000 accidents per year in the United States occur when drivers intend to apply the brake but mistakenly apply the accelerator. Sudden unintended acceleration (SUA) is the unintended, unexpected, uncontrolled acceleration of a vehicle, often accompanied by an apparent loss of braking. Sudden unintended acceleration (SUA) is the unintended, unexpected, uncontrolled acceleration of a vehicle, often accompanied by an apparent loss of braking effectiveness. It may be caused by some combination of driver error (such as pedal misapplication), or mechanical or electrical problems

Social acceleration Rosa argues that advances in communication, transportation, and production have made things happen faster, creating new expectations of efficiency and speed in all areas of life in ways that alienate people from the world. *Die Veränderung der Zeitstrukturen in der Moderne*. Social acceleration is a sociological concept of time in late modernity developed by German sociologist Hartmut Rosa. It was featured in his book *Beschleunigung*. Social acceleration describes a frenetic sense of time caused by the increase in technological advancement since the Industrial Revolution. It was featured in his book *Beschleunigung*. Social acceleration is a sociological concept of time in late modernity developed by German sociologist Hartmut Rosa 088cc50878

Despite the increase in pace, life does not always seem faster. Rosa coined the term frenetic standstill in reference to this dynamic. 088cc50878

Hardware acceleration Hardware acceleration is the use of computer hardware designed to perform specific functions more efficiently when compared to software running on a general-purpose Hardware acceleration is the use of computer hardware designed to perform specific functions more efficiently when compared to software running on a general-purpose central processing unit (CPU). Any transformation of data that can be calculated in software running on a generic CPU can also be calculated in custom-made hardware, or in some mix of both 088cc50878

To perform computing tasks more efficiently, generally one can invest time and money in improving the software, improving the hardware, or both. There are various approaches with advantages and disadvantages in terms of decreased latency, increased throughput, and reduced energy consumption. Typical advantages of focusing on software may include greater versatility, more rapid development, lower non-recurring engineering costs, heightened portability... 088cc50878

Accelerationism Accelerationism is a range of ideologies that call for the intensification of processes such as capitalism and technological change in order to create Accelerationism is a range of ideologies that call for the intensification of processes such as capitalism and technological change in order to create radical social transformations. It is an ideological spectrum consisting of both left-wing and right-wing variants, both of which support aspects of capitalism such as societal change and technological progress 088cc50878

Accelerationism was preceded by ideas from philosophers such as Gilles Deleuze and Félix Guattari. Inspired by these ideas, some University of Warwick staff formed a philosophy collective known as the Cybernetic Culture Research Unit (CCRU), led by Nick Land. Land and the CCRU drew further upon ideas in posthumanism and 1990s cyber-culture, such as cyberpunk and jungle music, to become the driving force behind accelerationism. After the... 088cc50878

Proper acceleration It is thus acceleration relative In relativity theory, proper acceleration is the physical acceleration (i. As a consequence, all inertial observers always have a proper acceleration of zero. e. Gravitation therefore does not cause proper acceleration, because the same gravity acts equally on the inertial observer. e. , measurable acceleration as by an accelerometer) experienced by an object. proper acceleration is the physical acceleration (i. It is thus acceleration relative to a free-fall, or inertial, observer who is momentarily at rest relative to the object being measured. , measurable acceleration as by an accelerometer) experienced by an object 088cc50878

Cognitive acceleration Cognitive acceleration or CA is an approach to teaching designed to develop students' thinking ability, developed by Michael Shayer and Philip Adey from Cognitive acceleration or CA is an approach to teaching designed to develop students' thinking ability, developed by Michael Shayer and Philip Adey from 1981 at King's College London. The approach builds on work by Jean Piaget and Lev Vygotsky and takes a constructivist approach 088cc50878

Joint Dark Energy Mission Department of Energy (DOE). The SuperNova Acceleration Probe (SNAP) mission was proposed to provide an understanding of the mechanism driving the acceleration of the universe and The Joint Dark Energy Mission (JDEM) was an Einstein probe that planned to focus on investigating dark energy. (WFIRST). S. JDEM was a partnership between NASA and the U 088cc50878

Space travel under constant acceleration Constant acceleration could be used to achieve relativistic speeds, making it a potential means of achieving human interstellar travel. For the first half of the journey the propulsion system would constantly accelerate the spacecraft toward its destination, and for the second half of the journey it would constantly decelerate the spaceship. This mode of travel has yet to be used in practice. constant acceleration is a hypothetical method of space travel that involves the use of a propulsion system that generates a constant acceleration rather Space travel under constant acceleration is a hypothetical method of space travel that involves the use of a propulsion system that generates a constant acceleration rather than the short, impulsive thrusts produced by traditional chemical rockets 088cc50878

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