

Relativity in Daily Life

Physics

Where relativistic effects are already engineered into technology.

Relativity in working systems.

Needs the correction

GPS and all satellite navigation

Particle accelerators and their beam optics

Medical PET scanning via annihilation

Synchrotron light sources

Depends on the physics

Nuclear power from mass-energy

Gold's colour, from relativistic electrons

Mercury being liquid at room temperature

Lead-acid battery voltage

Gold is yellow because relativistic effects on inner electrons shift its absorption into the blue. Silver, one row up, stays white.