

2 Power Law Of Self Thinning

Solar power

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Solar power, also known as solar electricity, is the conversion of energy from sunlight into electricity, either directly using photovoltaics (PV) or indirectly using concentrated solar power. Solar panels use the photovoltaic effect to convert light into an electric current. Concentrated solar power systems use lenses or mirrors and solar tracking systems to focus a large area of sunlight to a hot spot, often to drive a steam turbine.

Photovoltaics (PV) were initially solely used as a source of electricity for small and medium-sized applications, from the calculator powered by a single solar cell to remote homes powered by an off-grid rooftop PV system. Commercial concentrated solar power plants were first developed in the 1980s. Since then, as the cost of solar panels has fallen, grid-connected...

Taylor's law

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Taylor's power law is an empirical law in ecology that relates the variance of the number of individuals of a species per unit area of habitat to the corresponding mean by a power law relationship. It is named after the ecologist who first proposed it in 1961, Lionel Roy Taylor (1924–2007). Taylor's original name for this relationship was the law of the mean. The name Taylor's law was coined by Southwood in 1966.

Moore's law

months, with no increase in power consumption. Mathematically, Moore's law predicted that transistor count would double every 2 years due to shrinking transistor

Moore's law is the observation that the number of transistors in an integrated circuit (IC) doubles about every two years. Moore's law is an observation and projection of a historical trend. Rather than a law of physics, it is an empirical relationship. It is an experience curve effect, a type of observation quantifying efficiency gains from learned experience in production.

The observation is named after Gordon Moore, the co-founder of Fairchild Semiconductor and Intel and former CEO of the latter, who in 1965 noted that the number of components per integrated circuit had been doubling every year, and projected this rate of growth would continue for at least another decade. In 1975, looking forward to the next decade, he revised the forecast to doubling every two years, a compound annual growth...

Precedent fact errors in Singapore law

administrative law are errors committed by public authorities concerning facts that must objectively exist or not exist before the authorities have the power to take

Errors as to precedent facts, sometimes called jurisdictional facts, in Singapore administrative law are errors committed by public authorities concerning facts that must objectively exist or not exist before the authorities have the power to take actions or make decisions under legislation. If an error concerning a precedent fact is

made, the statutory power has not been exercised lawfully and may be quashed by the High Court if judicial review is applied for by an aggrieved person. The willingness of the Court to review such errors of fact is an exception to the general rule that the Court only reviews errors of law.

In the United Kingdom, the House of Lords has held that the nature of the decision-making process that the public authority is required to engage in determines whether a matter...

Self-hating Jew

Jewish identity. Early claims of self-hate were used to describe Jews who had internalized anti-Semitic tropes. Recognition of the concept gained widespread

The terms "self-hating Jew", "self-loathing Jew", and "auto-antisemite" (Hebrew: *otz'antishemi*, romanized: *oto'antishémi*, feminine: *otz'antishémit*, romanized: *oto'antishémit*) are pejorative terms used to describe Jews that oppose certain characteristics that the claimant considers core to Jewish identity.

Early claims of self-hate were used to describe Jews who had internalized anti-Semitic tropes. Recognition of the concept gained widespread currency after German-Jewish philosopher Theodor Lessing published his 1930 book *Der jüdische Selbsthaß* (lit. 'Jewish Self-Hatred'), which sought to explain a perceived inclination among secular Jewish intellectuals towards inciting antisemitism by denouncing Judaism. The term was also used to describe Jewish people whose viewpoints, especially favoring Jewish...

Thin film

thin film is a layer of materials ranging from fractions of a nanometer (monolayer) to several micrometers in thickness. The controlled synthesis of materials

A thin film is a layer of materials ranging from fractions of a nanometer (monolayer) to several micrometers in thickness. The controlled synthesis of materials as thin films (a process referred to as deposition) is a fundamental step in many applications. A familiar example is the household mirror, which typically has a thin metal coating on the back of a sheet of glass to form a reflective interface. The process of silvering was once commonly used to produce mirrors, while more recently the metal layer is deposited using techniques such as sputtering. Advances in thin film deposition techniques during the 20th century have enabled a wide range of technological breakthroughs in areas such as magnetic recording media, electronic semiconductor devices, integrated passive devices, light-emitting...

Rule of law

equality of all citizens before the law, secures a nonarbitrary form of government, and more generally prevents the arbitrary use of power." Legal scholars

The essence of the rule of law is that all people and institutions within a political body are subject to the same laws. This concept is sometimes stated simply as "no one is above the law" or "all are equal before the law". According to Encyclopædia Britannica, it is defined as "the mechanism, process, institution, practice, or norm that supports the equality of all citizens before the law, secures a nonarbitrary form of government, and more generally prevents the arbitrary use of power."

Legal scholars have expanded the basic rule of law concept to encompass, first and foremost, a requirement that laws apply equally to everyone. "Formalists" add that the laws must be stable, accessible and clear. More recently, "substantivists" expand the concept to include rights, such as human rights, and...

Disk laser

left-hand side of figure 2.) For power scaling, the medium should be optically thin, with many passes of pump energy required; the lateral delivery of pump energy

A disk laser or active mirror (Fig.1) is a type of diode pumped solid-state laser characterized by a heat sink and laser output that are realized on opposite sides of a thin layer of active gain medium. Despite their name, disk lasers do not have to be circular; other shapes have also been tried. The thickness of the disk is considerably smaller than the laser beam diameter. Initially, this laser cavity configuration had been proposed and realized experimentally for thin slice semiconductor lasers.

The disk laser concepts allow very high average and peak powers due to its large area, leading to moderate power densities on the active material.

Inductance

sources. The table below lists formulas for the self-inductance of various simple shapes made of thin cylindrical conductors (wires). In general these

Inductance is the tendency of an electrical conductor to oppose a change in the electric current flowing through it. The electric current produces a magnetic field around the conductor. The magnetic field strength depends on the magnitude of the electric current, and therefore follows any changes in the magnitude of the current. From Faraday's law of induction, any change in magnetic field through a circuit induces an electromotive force (EMF) (voltage) in the conductors, a process known as electromagnetic induction. This induced voltage created by the changing current has the effect of opposing the change in current. This is stated by Lenz's law, and the voltage is called back EMF.

Inductance is defined as the ratio of the induced voltage to the rate of change of current causing it. It is...

Non-Newtonian fluid

thixotropic fluids are extremely shear thinning, but they are significantly time dependent, whereas the colloidal "shear thinning" fluids respond instantaneously

In physical chemistry and fluid mechanics, a non-Newtonian fluid is a fluid that does not follow Newton's law of viscosity, that is, it has variable viscosity dependent on stress. In particular, the viscosity of non-Newtonian fluids can change when subjected to force. Ketchup, for example, becomes runnier when shaken and is thus a non-Newtonian fluid. Many salt solutions and molten polymers are non-Newtonian fluids, as are many commonly found substances such as custard, toothpaste, starch suspensions, paint, blood, melted butter and shampoo.

Most commonly, the viscosity (the gradual deformation by shear or tensile stresses) of non-Newtonian fluids is dependent on shear rate or shear rate history. Some non-Newtonian fluids with shear-independent viscosity, however, still exhibit normal stress...

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