Brush Brush Axis Example

Brush

filament into a brush base or backing material, accommodating natural bristles, synthetic fibers, or combinations of both. Advanced 5-axis brush making machines

A brush is a common tool with bristles, wire or other filaments. It generally consists of a handle or block to which filaments are affixed in either a parallel or perpendicular orientation, depending on the way the brush is to be gripped during use. The material of both the block and bristles or filaments is chosen to withstand hazards of its intended use, such as corrosive chemicals, heat or abrasion. It is used for cleaning, grooming hair, make up, painting, surface finishing and for many other purposes. It is one of the most basic and versatile tools in use today, and the average household may contain several dozen varieties.

Brush (video games)

shifts the plane along its axis. To construct a brush, the game engine uses multiple planes working together. For example, a cube can be defined by six

Brushes are templates used in some 3D video game engines, such as the Quake engine, its derivatives the GoldSrc and Source game engines, or the Unreal Engine, to construct levels. Brushes can be primitive shapes (such as cubes, spheres and cones), pre-defined shapes (such as staircases), or custom shapes (such as prisms and other polyhedra).

In order to describe these shapes mathematically, each brush is made up of planes that define its boundaries. A plane can be represented by an equation in 3D space, which looks like this:

a

x

+

b

y

+

c

z

+

d

=

0

{\displaystyle ax+by+cz+d=0}

This equation describes a single flat surface (or plane) in 3D space, where a, b, and...

Brushed DC electric motor

from a direct current power source and utilizing an electric brush for contact. Brushed motors were the first commercially important application of electric

A brushed DC electric motor is an internally commutated electric motor designed to be run from a direct current power source and utilizing an electric brush for contact.

Brushed motors were the first commercially important application of electric power to driving mechanical energy, and DC distribution systems were used for more than 100 years to operate motors in commercial and industrial buildings. Brushed DC motors can be varied in speed by changing the operating voltage or the strength of the magnetic field. Depending on the connections of the field to the power supply, the speed and torque characteristics of a brushed motor can be altered to provide steady speed or speed inversely proportional to the mechanical load. Brushed motors continue to be used for electrical propulsion, cranes,...

Slip ring

through the stationary brush to the metal ring making the connection. Additional ring/brush assemblies are stacked along the rotating axis if more than one

A slip ring is an electromechanical device that allows the transmission of power and electrical signals from a stationary to a rotating structure. A slip ring can be used in any electromechanical system that requires rotation while transmitting power or signals. It can improve mechanical performance, simplify system operation and eliminate damage-prone wires dangling from movable joints.

Also called rotary electrical interfaces, rotating electrical connectors, collectors, swivels, or electrical rotary joints, these rings are commonly found in slip ring motors, electrical generators for alternating current (AC) systems and alternators and in packaging machinery, cable reels, and wind turbines. They can be used on any rotating object to transfer power, control circuits, or analog or digital...

Armature (electrical)

along this axis because then they cut no flux. When no current is there in the armature conductors, the MNA coincides with GNA. The brushes of a generator

In electrical engineering, the armature is the winding (or set of windings) of an electric machine which carries alternating current. The armature windings conduct AC even on DC machines, due to the commutator action (which periodically reverses current direction) or due to electronic commutation, as in brushless DC motors. The armature can be on either the rotor (rotating part) or the stator (field coil, stationary part), depending on the type of electric machine.

Shapes of armatures used in motors include double-T and triple-T armatures.

The armature windings interact with the magnetic field (magnetic flux) in the air-gap; the magnetic field is generated either by permanent magnets, or electromagnets formed by a conducting coil.

The armature must carry current, so it is always a conductor...

Conoscopic interference pattern

as it moves. The optic axis figure of a biaxial mineral is more complex. One or two curved isogyres (sometimes called "brushes") will be visible, one

A conoscopic interference pattern or interference figure is a pattern of birefringent colours crossed by dark bands (or isogyres), which can be produced using a geological petrographic microscope for the purposes of mineral identification and investigation of mineral optical and chemical properties. The figures are produced by optical interference when diverging light rays travel through an optically non-isotropic substance – that is, one in which the substance's refractive index varies in different directions within it. The figure can be thought of as a "map" of how the birefringence of a mineral would vary with viewing angle away from perpendicular to the slide, where the central colour is the birefringence seen looking straight down, and the colours further from the centre equivalent to...

Brushtalk

Chinese as a [communication] medium" ???????? "Sun [Yat-sen] took out a brush and paper so we could converse" ???????? "using brushtalk, we engaged in

Brushtalk is a form of written communication using Literary Chinese to facilitate diplomatic and casual discussions between people of the countries in the Sinosphere, which include China, Japan, Korea, and Vietnam.

History of wind power

1887–1888 by Charles F. Brush. This was built by his engineering company at his home and operated from 1886 until 1900. The Brush wind turbine had a rotor

Wind power has been used as long as humans have put sails into the wind. Wind-powered machines used to grind grain and pump water — the windmill and wind pump — were developed in what is now Iran, Afghanistan, and Pakistan by the 9th century. Wind power was widely available and not confined to the banks of fast-flowing streams, or later, requiring sources of fuel. Wind-powered pumps drained the polders of the Netherlands, and in arid regions such as the American midwest or the Australian outback, wind pumps provided water for livestock and steam engines.

With the development of electric power, wind power found new applications in lighting buildings remote from centrally generated power. Throughout the 20th century, parallel paths developed small wind plants suitable for farms or residences...

Metadyne

quadrature brushes together, current is produced in the armature, and the flux that this produces (A2) is again at right angles to the quadrature axis, resulting

A metadyne is a direct current electrical machine with two pairs of brushes. It can be used as an amplifier or rotary transformer. It is similar to a third brush dynamo but has additional regulator or "variator" windings. It is also similar to an amplidyne except that the latter has a compensating winding which fully counteracts the effect of the flux produced by the load current. The technical description is "a cross-field direct current machine designed to utilize armature reaction". A metadyne can convert a constant-voltage input into a constant-current, variable-voltage output.

Punch press

machines have a table or bed with brushes or rollers to allow the sheet metal workpiece to traverse with low friction. Brushes are used where scratches on the

A punch press is a type of machine press used to cut holes in material. It can be small and manually operated and hold one simple die set, or be very large, CNC operated, with a multi-station turret and hold a much larger and complex die set.

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