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shows that there are many ways to build pairs that don't fit this simple classification. The lower pair lower vapor lower vapor is an ideal joint, or holonomic restriction that maintains contact between a point, line or plane in a moving solid (three-dimensional) body corresponding to a point line or plane in a fixed solid body. There are the following cases: a revolute vapor, or hinged joint, requires a line, or axis, in a moving organ to remain solid with a line in a fixed body, and the plane perpendicular to this line in a moving body maintain contact with a similar perpendicular plane in a fixed body. This imposes five restrictions on the relative movement of the links, which therefore has one degree of freedom, which is the pure rotation around the hinge axis. A prismatic joint, or slider, requires that the line, or axis, in the moving enclosure remain colina with a line in a fixed and the plane parallel to this line in the moving body maintain contact with a similar parallel plane in the fixed body. This imposes five restrictions on the relative movement of links, which therefore has one degree of freedom. This degree of freedom is the distance from the slide along the line. The cylindrical joint requires that the line, or axis, in the movement of the body remains solid with the line in the fixed body. It is a combination of a revolute joint and a sliding joint. This joint has two degrees of freedom. The position of the moving body is determined by both rotation and sliding on the axis. A spherical joint, or joint ball, requires that the point in the moving body maintain contact with a point in the fixed body. This joint has three degrees of freedom. The planar joint requires that the aircraft in the moving hull maintain contact with the plane in a fixed body. This joint has three degrees of freedom. Higher pairs Generally speaking, higher vapor is a limitation that requires a curve or surface in the movement of the body to maintain contact with a curve or surface in a fixed body. For example, contact between the camera and its follower is a higher pair called a fist joint. Similarly, the contact between the curved curves that form the mesh teeth of the two gears are fist joints. Kinematic Circuit Illustration of communication from four bars from Kinematics of Machinery, 1876 Rigid bodies (links) connected by cinematic pairs (connections), known as kinematic chains. Mechanisms and robots are examples of kinematic circuits. The degree of freedom of the kinematic chain is calculated from the number of links and the number and type of joints using the mobility formula. This formula can also be used to list the topologies of kinematic circuits that have a certain degree of freedom, which is known as type synthesis in machine design. Examples of Planar one degree of freedom ties collected from N links and J hinged or sliding joints are: N-2, J1 : a two-bar bond that is a lever; N-4, J-4 : the connection between the four bars; No 6, J7: six bar links. This should have two links (ternary links) that support three joints. There are two different topologies that depend on how these two first-place connections are related. In Watt's topology, two ternary compounds have a common joint; In Stevenson's topology, the two-thorn links have no common joint and are linked by binary references. N-8, J-10 : eight-bar connection with 16 different topology; N-10, J-13 : ten bar connection with 230 different topologies; N-12, J16 : twelve bar links with 6856 topologies. For larger chains and their linkages, see R. P. Sunkari and L. C. Schmidt, Structural Synthesis of Planar Kinematic Circuits by adapting the Mackay-type algorithm, mechanism and machine theory #41, p. 1021-1030 (2006). See Absement Acceleration Analytical Mechanics Applied Mechanics Celestial Mechanics Centration Force Classical Mechanics Mechanics Dynamics (Physics) The Fictitious Power Forward Kinematics Four-Bar Communication Reverse Cinematic Jerk (Physics) Laws Kepler Kinematic Communication Kinematic Diagram Kinematic Synthesis Kinetic (Physics) Movement (Physics) Orbital Mechanics Static Speed Integrated Cinematics Chebychev-Grubler-Kutler-Kutz Chapter 1. ISBN 0-521-35883-3. Joseph Stiles Beggs (1983). Kinematics. Taylor and Frances. page 1. ISBN 0-89116-355-7. Thomas Wallace Wright (1896). Elements of mechanics, including kinematics, kinetics and statics. E and FN Spohn. Chapter 1. Russell K. Hebbeler (2009). Kinematics and kinetics of the particle. Engineering Mechanics: Dynamics (12th place). Prentice Hall. page 298. ISBN 0-13-607791-9. 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