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the icosahedron is built around the pentagon and the golden section at first glance this may seem absurd since every face of the icosahedron is an equilateral triangle it turns out however that the triangular faces of the icosahedron result from its pentagonal nature icosahedron expansion process becomes its dual the dodecahedron expansion on polyhedra is the process of moving all faces outward from the center of polyhedron and fill the gaps with new faces an expanded polyhedron has all the faces of the original polyhedron all the faces of its dual and new square faces in place of the original there are two objects one convex and one nonconvex that can both be called regular icosahedra each has 30 edges and 20 equilateral triangle faces with five meeting at each of its twelve vertices both have icosahedral symmetry the term regular icosahedron generally refers to the convex variety while the nonconvex form is called a great icosahedron we show that this theory is a special case of an overarching design principle for icosahedral as well as octahedral architectures that can be formulated in terms of the archimedean lattices and an icosahedron shown in figure 1722 is a regular polyhedron with 20 identical equilateral triangular sides the main characteristics of a quasicrystal structure are that it is a combination of a quasiperiodic lattice and a cluster decorating it an icosahedron is a three dimensional figure made up of only polygons one real life icosahedron example is a 20 sided die also referred to as d20 the 20 sided die above is an example of a regular icosahedron since all of its faces are made up of 20 equilateral triangles an icosahedron shape can also take on a number of different forms icosahedral clusters of atoms are found in the following types of inorganic structures 1 boron derivatives including the borane anion $b 12 \mathrm{~h} 122$ and its derivatives the carboranes c 2 b 10 h 12 elemental boron certain types of boron rich metal borides such as mg 2 b 14 and boron carbide 2 alkali metal gallides such as rbga 7 and $k 3 \mathrm{~g}$ in a regular icosahedron all 30 edges are of equal length and have 12 vertices faces the flat surfaces of the icosahedron are called faces in an icosahedron there are 20 faces and each one is an equilateral triangle vertices the points where the faces of the icosahedron meet are called vertices description icosahedral symmetry is a mathematical property of objects indicating that an object has the same symmetries as a regular icosahedron as point group the icosahedral group i h is the group of symmetries of the icosahedron and dodecahedron having order 120 equivalent to the group direct product a 5 z 2 of the alternating group a 5 and cyclic group z 2 as a compound it can be seen as the compound of an icosahedron and dodecahedron it is one of four compounds constructed from a platonic solid or kepler poinsot solid and its dual it has icosahedral symmetry ih and the same vertex arrangement as a rhombic triacontahedron virus structures are megadalton nucleoprotein complexes with an exceptional variety of protein protein and protein nucleic acid interactions three dimensional crystal structures of over 70 virus the twofold threefold and fivefold rotational axes present within icosahedral symmetry provide three possible ways to construct such complexes from pairwise combinations of oligomeric building blocks we refer to these architectural types as i53 i52 and i32 fig s1 in mathematics the binary icosahedral group 2 i or 2351 is a certain nonabelian group of order 120 it is an
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