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rotations in 4 dimensional euclidean space wikipedia - *geometry of 4d rotations four dimensional rotations are of two types simple rotations and double rotations simple rotations a simple rotation r about a rotation*, **quaternions and spatial rotation wikipedia** - *unit quaternions also known as versors provide a convenient mathematical notation for representing orientations and rotations of objects in three dimensions*, **quaternion from wolfram mathworld** - *references altmann s l rotations quaternions and double groups oxford england clarendon press 1986 arfken g mathematical methods for physicists 3rd ed*, **visualizing quaternions the morgan kaufmann series in** - *visualizing quaternions the morgan kaufmann series in interactive 3d technology andrew j hanson steve cunningham on amazon com free shipping on qualifying*, **quaternions and rotation sequences a primer with** - *buy quaternions and rotation sequences a primer with applications to orbits aerospace and virtual reality on amazon com free shipping on qualified orders*, **matrice de rotation wikip dia** - *rotations en deux et trois dimensions dans toute cette section on consid re que les matrices agissent sur des vecteurs colonne en dimension deux*, **the octonion math that could underpin physics quanta** - *there the game stops proof surfaced in 1898 that the reals complex numbers quaternions and octonions are the only kinds of numbers that can be added*, **intuitive concepts in quantum mechanics scriptural physics** - *i hope this photon model will prove to be a substantial improvement over the ones i have used in the past see also on de broglie s double particle photon*