

12(U,V) 20 × 20 → direction of mormal in 1120 × 20 11 = area of the facet (value on the sphere)

Tessellation of the sphere

- O wills have same area
- (2 cells have same shape
- 3 regular pattern
- @ rounded shapes
- some rotations bring self alignement

So let us lock for canolidates...

Platonie solids

Jetra-

hera -

dodeca - 12

icosa - 20

Archimedian Solids

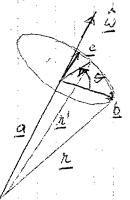
Pentalus dodecakedrun

5 x 12 = 60 facets

dual of truncated

	Duality Vertez () Edge ()		
	tetra Redion D cube ochahedron doderahedron icosahedron		
	Rotation Repusentations Euler Angles 3	Desired:	no sugularities
max on a service manning of the service manni	Axis I Angle 2+1 Rot. matrix 3		un redundant easy vector rotation
	Gibbs Vector 3 quaternions 4 Eules/Rudrigues 4		"spice of rotation" tessellation
	Caljtey-Klein 4 Pauli-spin mat. 2 complex		Calculus applied to stat.

Rodrigue's formula



$$\frac{x}{a} = \frac{a+b}{b}$$

$$\frac{x'}{a} = \frac{a+b\cos\phi + c\sin\phi}{a}$$

$$\frac{a}{b} = \frac{(x,\hat{\omega})\hat{\omega}}{(x+\hat{\omega})} = \frac{(x,\hat{\omega})}{(x+\hat{\omega})} = \frac{(x,\hat{\omega})}{(x+\hat{\omega})}$$

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$$\underline{\hat{r}}' = (1 - \cos \theta)(\underline{r}.\hat{\omega})\hat{\omega} + \cos \theta \underline{r} + \sin \theta(\hat{\omega} \times \underline{\epsilon})$$

$$\underline{\mathbf{L}} = ((1 - \cos \theta) \omega \omega^{\mathsf{T}} + \cos \theta \, \underline{\mathbf{I}} + \sin \theta \, \underline{\mathbf{Q}}) \underline{\mathbf{r}}$$

$$\Omega = \begin{bmatrix} 0 & -W_z & Y_y \\ W_z & 0 & -W_x \\ -W_y & W_x & 0 \end{bmatrix}$$

$$\lambda_{12} = (1 - \omega_{S}\theta) \omega_{x}^{2} + \omega_{S}\theta + 0$$

$$\lambda_{12} = (1 - \omega_{S}\theta) \omega_{x}\omega_{y} + 0 + (-\sin\theta \omega_{z})$$