

## Article 48

### MANIFESTATION PLATES

1

#### **Interlocked synthetic set ups of cube as eight sub cubes and square as quadruple quarter squares**




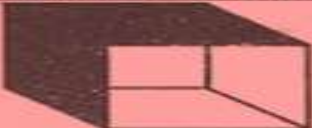
Within 3-space, surface has a pair of faces.

Surface is a 2-space set up. Square is the representative regular body of 2-space. Square is a synthetic set up of quadruple quarter squares.

Square is a set up of 9 structural components, namely 4 corner points, 4 boundary lines & the area surface. First quarter square, as such contributes 9 structural components.

A synthetic set up of a pair of quarter square together contribute 9+6 structural components. The 3<sup>rd</sup> quarter square as well contributes 6 structural components and 4<sup>th</sup> quarter square contributes only for structural components. This way a synthetic set up of quadruple quarter squares become a set up of 9+6+6+4 = 25 structural components.

The central surface plate of synthetic set up of 8 sub cubes, classifies sub cubes as of a pair of classes of quadruple sub cubes each. This pair of classes of quadruple sub cubes each may be designated as upper and lower classes of quadruple sub cubes.

First sub cube	Second sub Cube
	
Structural components 8 corner points, 12 edges 6 surfaces, 1 volume = Total 27	Structural components 4 corner points, 8 edges 5 surfaces, 1 volume = Total 18
Third sub cube	Fourth sub Cube
	
Structural components 4 corner points, 8 edges 5 surfaces, 1 volume = Total 18	Structural components 2 corner points, 5 edges 4 surfaces, 1 volume = Total 12

The upper class of quadruple sub cubes is a synthetic set up of 27+18 for the first row of pair of sub cubes and 18+12 structural components for the second row of another pair of sub cubes.

The surface plate beneath these quadruple sub cubes is a set up of quadruple quarter squares of structural components 9+6 for the first row and 6+10 for the second row.

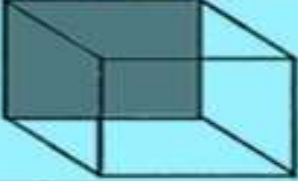
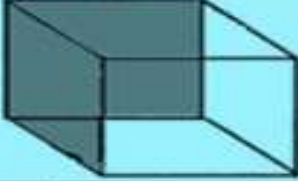
The structural components contribution of quadruple sub cubes, and of quadruple quarter squares of the surface plates make the following tabulation:

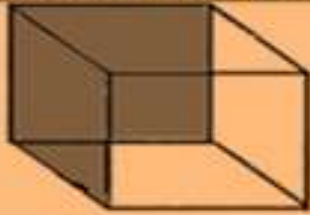
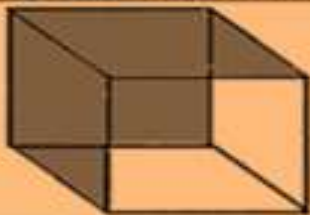
Serial Number	Sub cube structural components	Quarter squares structural components
First	27 = 9x3	9 = 9x1
Second	18 = 6x3	6 = 6x1
Third	18 = 6x3	6 = 6x1
Fourth	12 = 4x3	4 = 4x1

Along the second phase of the surface plate there is manifestation of another class of quadruple sub cubes of structural components as follows:

Serial Number	Sub cube structural components	Quarter squares structural components
Fifth	18 = 9x2	9 = 9x1
Sixth	12 = 6x2	6 = 6x1

Seventh	$12 = 6 \times 2$	$6 = 6 \times 1$
Eighth	$8 = 4 \times 2$	$4 = 4 \times 1$

Fifth sub cube	Sixth sub Cube
	
Structural components 4 corner points, 8 edges 5 surfaces, 1 volume = Total 18	Structural components 2 corner points, 5 edges 4 surfaces, 1 volume = Total 12

Seventh sub cube	Eighth sub Cube
	
Structural components 2 corner points, 5 edges 4 surfaces, 1 volume = Total 12	Structural components 1 corner points, 3 edges 3 surfaces, 1 volume = Total 8

The first class of quadruple sub cubes and there surface plates structural components make a ratio of (3:1), however the second class of sub cubes and quarter squares structural components make a ratio (2:1).

Formulations EK (एक), DWAE (द्वय) & TRI (त्रय) are of transcendental code values as follows:

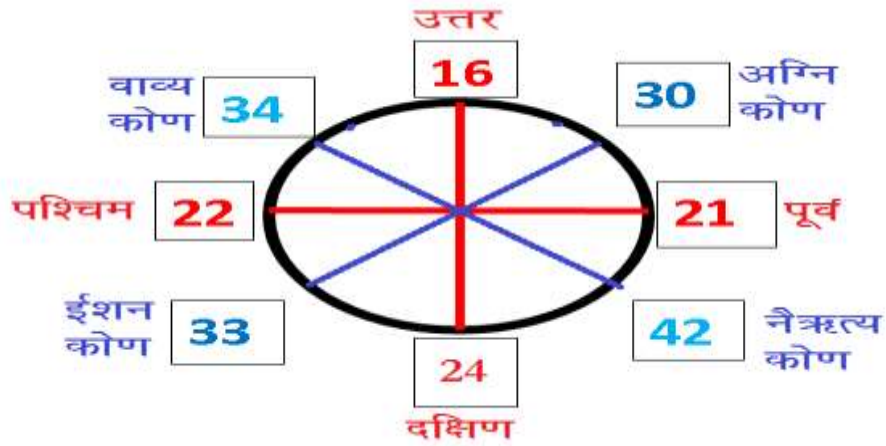
TCV (एक) = 8, TCV (द्वय) = 16 & TCV (त्रय) = 8.

TCV (एक) = 8 = TCV (त्रय)

TCV (द्वय) = TCV (एक) + TCV (त्रय)

Within a square there is a manifestation of single axis format as well as of pair of axes format. These features of synthetic manifestations have their interlinking and inter-coordination of synthetic set ups of cubes as eight sub cubes and square as a synthetic set up of quadruple quarter squares.

## 2

**Ten directional frames**

Quadruple directions are: East (पूर्व), West (पश्चिम), North (उत्तर) & South (दक्षिण).

Quadruple sub directions are: North-East (ईशान कोण), North-West (वायव्य कोण), South-East (अग्नि कोण) & South-West (नैऋत्य कोण).

Ninth and tenth directions are: Downward and Upward

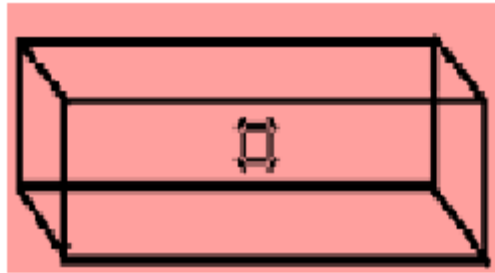
Eight directions and sub directions formulations lead to transcendental code values of summation value 222 as under:

पूर्व	21	21
पश्चिम	22	43
उत्तर	16	59
दक्षिण	24	83
ईशान कोण	33	116
अग्नि कोण	30	146
वायव्य कोण	34	180
नैऋत्य कोण	42	222

Eight directional frames of four directions and four sub directions together with spatial order hyper cube of quadruple folds (2, 3, 4, 5) of summation value 14 makes grand summation values

$222+14 = 236$  parallel with the total letters of the text of ganita upsutras 1 to 13.

Ninth and tenth directions formulations are of transcendental code values 9 & 23 respectively of summation value 32 which together with the summation value 222 of transcendental code values of eight directions and sub directions make a grand summation value  $222+32 = 254$ .



Ten directional frames together with creative origin seat at center of the cube, the representative regular body of 3-space in 4-space as a seat of brahma, creator's supreme makes additional contribution of value 29 parallel with TCV (ब्रह्मा) = 29 makes the total value of this set ups of ten directional frames together with creative origin being  $254+29 = 283$  parallel with 283 letters of the text of Ganita sutras 1 to 16.

This interlocked and inter-coordinated set ups of eight directional frames and ten directional frames manifests the interlocked and inter-coordinated manifestation formats for Ganita sutras and upsutras.

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