Abstract: Design in these days reflects each region’s culture and characteristic. In this point of time, there are many efforts to arise many discussion and awareness in areas such as traditional culture, globalism and Native Design. They all have understanding problem of ‘design that contains eastern culture’ in common. Therefore this study is processed focused on possibility of finding definite system of thought and solution from eastern ideology. In the preceded study, can confirm the possibility by analyzing a regular polyhedron, which is a basic form of formative art, in numerical study of thought in the book of changes.

Key Word: Native Design, I Ching, Formative, The Book of Changes, Yin and Yang

1. Introduction
These days, there are many efforts to arise many discussion and awareness in areas such as traditional culture, globalism and Native Design. That has understanding problem of ‘design that contains eastern culture’ is still at the first step, in common. Therefore there must be a design system of thought or solution based on Eastern’s own characteristic and in there is a high possibility of finding a system of thought suits us which are method from eastern ideology.

In this study aims for finding possibility of adjustment of formative from concept of numerical study in the book of changes in eastern.

2. Numbers and Formativeness in ancient western
To understand about background of completion and development in western philosophical number system is very important in finding out the possibility of how analysis of formativeness can be defined from eastern western philosophical number system. Platon supported and inherited 5 elements from Empedokles’s 4 elements. He also added an ideal material structure and put it into five regular polyhedrons to present basic cubic, which are called ‘platonic cubic’. It is interesting that there are only five regular polyhedrons existences and they has characteristic of ‘dual’ and ‘circulation’.

3. Idea of numbers in the book of change
The book of change which has structure of ‘Yin and Yang’, ‘four images’, ‘8 trigrams’, ‘64 hexagrams’, have mathematical system of binary scale, and by this it could be numerical so that it can be coordinates analyzed by putting into coordinates graph. Each divination of triple lined shape eight trigrams can be shown as a point on a coordinates graph (x y z) so it can be used as a scale of analysis.


4.1. Cube
Inputting x, y z axis of coordinates division each are triple lined shapes make it possible to put eight trigrams to each points. This exactly convergence with cubical of the logic system based on Fu His’s eight trigrams. Also sum of division gathered on each side is -4 (side a, c, e) + 4(side b, d, f) all of them has created cubical in perfect harmony of Yin and Yang. When put into eight trigrams of King Wen, all of 6 sides are 0 that each side are in perfect harmony of Yin and Yang. (Figure 3)

4.2. Tetrahedron
A rule that in each 4 point contains divination of 4 states has been found in two Tetrahedron from created cube above when top line or bottom line had been took out. Also the sum of divination gathered in each sides is for first tetrahedron, 1 (side a, b, c) + -3(side d). For second tetrahedron,
4.3. Octahedron

Because it is dual with cube, it can be thought as common denominator division placed in the center of the one of the side in the cube. One of the points of Octahedron can be put with 4 division gathered on one side which is made of 2 lines that has possibility of transformation and 1 common line. (Figure 4)

4.4. 64 hexagram’s geometric expression

When concrete the logic system of Sixty-four hexagrams into solid, it have structure of solid Magic Square like Figure 5 and when the six of circulating Groups are linked with lines it is possible to find very interesting structure that has same view for Top, Front, Side like Figure 6.

5. Conclusion

By what we have been looking until now, it is possible to analyze the form of the basic regular polyhedron from view of the harmony of Yin and Yang and numerical structure of the book of changes. Also it would be suitable to understand the solid model of Sixty-four hexagrams is not just simple solid but as Dynamic solid model that has possibility of transformation, and when analyzed in the logic of the book of changes, the form changes, however true nature of the harmony of Yin And Yang is still inherited. However, in the future study should extend the area to other solid Formative arts of the applications and take progress in the possibility of understanding and creating.

6. References

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