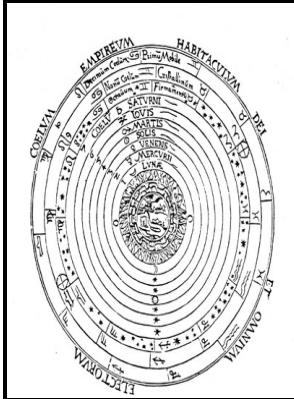


# Studies in Eudoxus homocentric spheres

Societas Scientiarum Fennica - Eudoxus (408 BC)

Description: -



Apollo Soyuz Test Project.  
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Notes: Bibliography: p. [123]-124.  
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## Ancient and Medieval Traditions in the Exact Sciences: Essays in Memory of Wilbur Knorr, Suppes, Moravcsik, Mendell

Evidently Eudoxus's contemporaries detected flaws in his system, because there occurred a series of modifications after his death, modifications constituting what Thomas Kuhn might characterize as normal science. This was a way to try and explain the motion of the planets. But that the motion of the lunar node was known forty or fifty years earlier is proved by the lunar theory of Eudoxus.

### Eudoxus and Ezekiel's wheel theophany

In the case of Mercury the theory of Eudoxus was already fairly correct, and no doubt the extra sphere made it better still. However, every sphere will rotate about its poles independently of any sphere above or below.

### Concentric spheres

The same issues arise as for the third sphere. In other words, Kalippus must have been aware of the elliptic inequality of the moon. But, as in the case of Mars, Venus can never become retrograde, and no different assumption as to the value of the inclination can do away with this error of the theory.

### What is Homocentric model?

The planet is set on the equator of a uniformly rotating sphere. This is equivalent to a rotating Earth and a fixed sphere of the stars; the observational consequences of the systems are identical.

### Eudoxus And Concentric Spheres

Nevertheless, it suited well the basic Aristotelian principles-for example, that the cosmos separates into two spherical realms, at its center, the terrestrial, and that the natural motions of matter in the central realm for example, earthly substances moving in straight lines toward the center of the cosmos differ from those in the outer where motion is circular, uniform, and eternal.

### What Eudoxus and Aristotle Thought

Let a sphere the third of Eudoxus rotate round these points in the synodic period of the planet, and let any point P 1 in the equator of this sphere be the pole of a fourth sphere which rotates twice as fast as the third in the opposite direction carrying the point P 2 with it, which is the pole of a fifth sphere rotating in the same direction and period as the third and carrying the planet at M on its equator. These men may have been either Gentiles, or hellenized Jews. Theories of the World from Antiquity to the Copernican Revolution.

### **What were the spheres of eudoxus?**

What effect will these two last-mentioned motions have on the apparent position of the planet in the sky? Last Updated on Tue, 02 Feb 2021  
Plato encouraged a new approach to : to devise a combination of uniform circular motions to reproduce the observed motions in the heavens. As the greatest elongation of each of these planets from the sun equals half the length of the hippopede, i. One historian of astronomy after another, knowing in reality nothing about it, except that it supposed the existence of a great number of spheres, contented himself with a few contemptuous remarks about the absurdity of the whole thing.

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The apparent motion of the Sun presents a more difficult problem.

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