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Determining Parameters Shape and Position of Conic

Key words: *applied geometry, engineering graphics, graphic disciplines, curves of the 2nd order, ellipse, hyperbola, parabola, circle, parameters, positions, forms, parametric power, center.*

Annotation: *in persisting article are considered determination of the form and position curves of the second order on planes and in space, which is used for task these crooked and for determination of the position and planes crossing surfaces of the second order on given cone-shaped section curves of the second order.*

Исследование кривых линии и поверхностей, которое часто встречаются на различных отраслях производства, как в машиностроении, так и в сооружениях строительства. Как известно, пространство заполнено множеством геометрических фигур для выделения из них определенных фигур требуется некоторые дополнительные условия. Например, определение параметров положения и формы геометрических фигур отвечающим наперед заданным условиям.

В настоящей статье рассматривается один из способов определения параметров положения и формы коники как на плоскости, так и в пространстве.

1. Параметры формы и положения окружности.

1.1. Как известно, форма произвольной окружности определяется ее радиусом R , который является формы окружности. Поэтому каждому определенному значению R , соответствует определенная форма окружности на плоскости и пространстве. Следовательно, радиус окружностей на плоскости и в пространстве – одно параметрическое множеств, мощность которого равняется ∞^1 .

1.2. Параметры положение окружности в пространстве определяется заданием положения ее плоскости, который в пространстве зависит от трех параметров (рис. 2). Мощность множества плоскостей в пространстве равно ∞^3 . Поэтому произвольную окружность в пространстве можно определить шестью параметрами, один параметр формы, пять параметров положения. Совокупность окружностей в пространстве шести параметрическое множество, мощность которого равна ∞^6 .

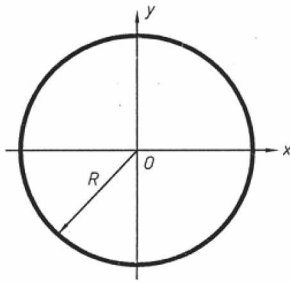


рис. 1

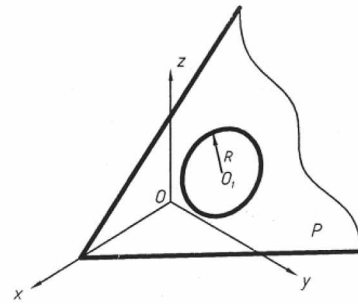


рис. 2

2. Параметры формы и положение параболы.

2.1. Параметры формы параболы на плоскости и в пространстве определяется фокальным параметром — p . Следовательно, параметром формы параболы на плоскости и в пространстве однопараметрическое множество мощность которого будет ∞^1 .

2.2. Параметры положение произвольной параболы на плоскости можно определить заданием её вершины (или фокуса) и направлением оси параболы (рис. 3). Задание вершины параболы (точка) на плоскости определяется двумя параметрами, заданием направления оси параболы определяет еще один параметр. Следовательно, число параметров положения произвольной параболы на плоскости равно трем. Совокупность парабол на плоскости четырех параметрическое множество, мощность которого равна ∞^4 (один — параметр формы. Три — параметры положения).

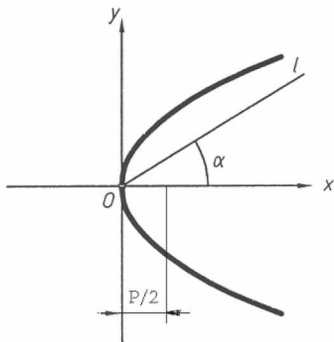


рис. 3

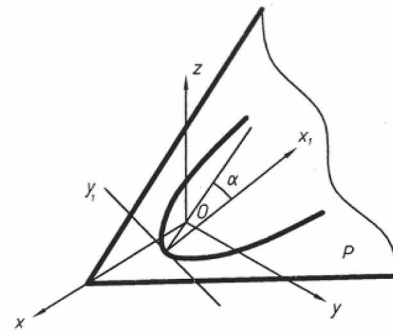


рис. 4

2.3. Параметры положение произвольной параболы в пространстве определяется заданием положения ее плоскости (рис. 4), который зависит от трех параметров мощность этого множества равна — ∞^3 . Следовательно, положение и форма произвольной параболы в пространстве можно определяться семью параметрами — ∞^7 из них один — параметр формы, шесть — параметры положения. Совокупность всех парабол в пространстве — семи параметрическое множество, мощность которой запишется ∞^7 .

3. Параметры формы и положения эллипса или гиперболы.

Известно, что из кривых второго порядка эллипс и гиперболы относятся к группе центральных

кривых. Они имеют центр (точка) и главные оси, которые определяют формы этих кривых. Поэтому определение параметров формы и положения эллипса и гипербола будем рассматривать аналогично.

3.1. Форма эллипса и гипербола на плоскости и в пространстве определяется заданием их главных осей, которые равны **2а** и **2в** (рис. 5). Поэтому величины осей этих кривых 2-го порядка являются параметрами формы кривых. Следовательно, число параметров, определяющих форму эллипса или гипербола, равно двум мощность этого множества равна ∞^2 .

3.2. Параметры положение эллипса или гипербола в пространстве определяется заданием положения их плоскостей (рис. 6), который зависит от трех параметров мощность этого множества равна ∞^3 . Так как в плоскости эллипса или гипербола определяется пятью параметрами ∞^5 , следовательно, совокупность эллипсов или гипербола в пространстве восьми параметрическое множество (из них два — параметры формы, шесть параметры положения), мощность которого будет равна ∞^8 .

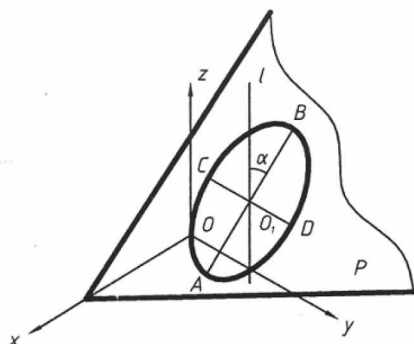


рис. 5

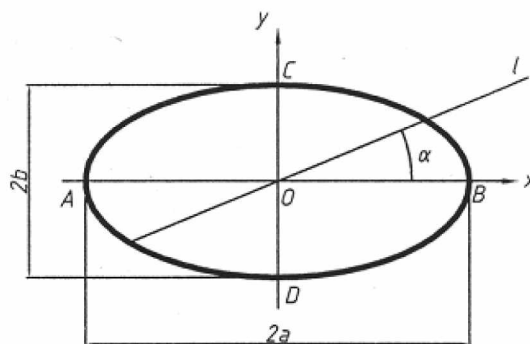


рис. 6

Выше приведенные соображения можно использовать для задания коники и для определения плоскостей, пересекающих квадратки по заданному коническому сечению.

Выше приведенные сведения для определения количество формы и положения коники как на плоскости и на пространстве можно определить по таблице № 1.

Таблица 1

Виды кривых 2-го порядка	Параметры формы	Параметры положения	На пространстве	Итог
		На плоскости		
Окружность	1 (R)	2	3	6
Парабола	1 (p)	3	3	7
Эллипс	2 (2a, 2b)	3	3	8
Гипербола	2 (2a, 2b)	3	3	8

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