

Direction Function and Its Use in Basic Mathematics

Meskhishvili, Mamuka

Kanashvili, Mariam

The aim of the research is to define new mathematical structure based on distinctive axioms group. While choosing main concepts and axioms I use generalization methodology; I choose objects that have been well studied and allocate part among their properties. As a priority for main concepts and axioms, I use these data for new theory, assigning them selected properties. Therefore, I learn certain characteristics to the known objects generalizing them. The idea involves that according to the interpretation method, the nonresistance of axiomatic system is initially guaranteed. Using main concepts I defined the objects like plane, point, straight line. Point in my structure represents a real number pair (field elements); and as an example in analytical geometry, the representation of a certain point with a number pair is connected to coordination system and generally, in different systems, this representation varies. In this case, a pair of numbers is itself a point because there is no concept of a distance, so the coordinates are not defined.