

A STUDY ON THE CARTOGRAPHIC FUZZY MATRIX MODEL  
AND MATHEMATICAL EXPRESSION OF CARTOGRAPHIC TERMS

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On the basis of the research of the cartographic models made by the authors some years ago, this paper further studies the establishment of cartographic fuzzy matrix to make the concepts in cartographic theory, e. g., selection, deletion, mapping generalization and graphic transformation, into more precise mathematical expressions.

The paper contains the following parts:

- 1, Introduction
- 2, The fuzzy matrix model of map
- 3, The mathematical calculation of graphic transformation in mapping process. In this part the main discussion points are: the basic elements for calculation of graphic transformation, the relevant terms and definitions of mapping and eight practical examples.
- 4, Conclusion.