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Application of Synergetics in Evaluation of Sustainable Water Resources Utilization

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Abstract: Synergetics is about the theory of open and non-equilibrium system, and water resources system is an complicated open and non-balance system. In the case study of Huzhou City, the water resources development and utilization indicators and economic and social indicators of 2011, 2013 and 2015 were selected with steps of 2 years, synergetics was used in assessment of sustainable utilization of water resources in Huzhou City. The results show that it is feasible to apply synergetics in assessment of local water resources sustainable utilization, which is a new way to evaluate local water resources and local water resources bearing capacity.

Key words: synergetics; Huzhou City; sustainable utilization of water resources; assessment; water resources carrying capacity

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