

## Parameter Estimation and Experimental Design in Groundwater Modeling

SUNNe-zheng

University of California at Los Angeles, Los Angeles, CA, USA

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**摘要** This paper reviews the latest developments on parameter estimation and experimental design in the field of groundwater modeling. Special considerations are given when the structure of the identified parameter is complex and unknown. A new methodology for constructing useful groundwater models is described, which is based on the quantitative relationships among the complexity of model structure, the identifiability of parameter, the sufficiency of data, and the reliability of model application.

**关键词** [Groundwater moleliy; Inverse problem; Parameter estimation; Model reliability; Experimental design](#)

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通讯作者:

作者个人主页: [SUNNe-zheng](#)

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