

## 基于多目标规划的中国可持续发展模式优化研究

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## Optimization Research on the Development Mode of Chinese Sustainable Development Based on the Multi-Objective Programming

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**摘要** 本文以人口(Population)、资源(Resource)、经济(Economy)、环境(Environment)和科技(Science & Technology)为核心,构造了PREEST系统模型。以PREEST系统为对象,运用主成分分析法对1987-2001年度中国的可持续发展水平进行了综合评价;借助多目标规划理论,构建了中国可持续发展多目标集成模型,并以“十五”计划纲要为基准,开展了中国可持续发展规划研究的实证分析。在此基础上,通过对“十五”期间中国可持续发展传统模式和规划模式的对比分析,就中国人口、资源、经济、环境和科技等领域的协调发展提出了政策建议。

**关键词:** [可持续发展](#) [PREEST系统](#) [综合评价](#) [多目标规划](#) [发展模式](#)

**Abstract:** The PREEST system model has been put forward based on the population, resource, economy, environment and science & technology. Then, the integrated evaluation of the sustainable development level in China has been completed during 1987~2001 by dint of the principal component analysis. At the same time, a multi-objective integrated model for the sustainable development of China has been formulated according to the theory of the multi-objective programming, and a demonstration analysis about the programming research of Chinese sustainable development is introduced with the goal of Chinese 10th Five-Year Plan. Finally, some advice has been given based on the contrast analysis between the traditional development mode and the programming development mode.

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