
轿车减排技术规划

摘要

随着我国经济的高速发展，我们的日常出行已经离不开汽车了，汽车成为人们生活的必需品，伴随着汽车销量的快速增加，直接上升的是化石燃料的消耗量，这样一来就导致碳排放量也随之增加。其燃烧产生的尾气排进空气导致环境恶化，虽然国家也出台相关措施对汽车碳排放量进行限制，但环境问题还是没有得到有效的控制。所以减排技术的合理使用就变得尤为关键。所以本文试图从碳排放角度入手，设法获得最大的碳排放减少量，再从企业与消费者的角度出发试图分析得出减排的优化机制，限制企业的投入成本，以各项技术优化的数值为决策变量，模拟规定了某一特定车型进行建模，得出如何实施汽车尾气的减排技术提出具体的研究对策，得到最优规划方案。经过本文的研究表明，在成本约束的限制下，合理使用减排技术，会减少相对于标准值一半的碳排放量。

关键词：环境恶化；减排技术；碳排放；最优方案



ABSTRACT

With the rapid development of China's economy, our daily travel has been inseparable from cars. Cars have become a necessity for people's lives. With the rapid increase in car sales, the direct increase is the consumption of fossil fuels, which leads to carbon Emissions have also increased. The exhaust gas generated by the combustion is discharged into the air and causes environmental degradation. Although the country has also introduced relevant measures to limit the carbon emissions of automobiles, environmental problems have not been effectively controlled. Therefore, the rational use of emission reduction technology becomes particularly critical. Therefore, this paper attempts to start from the perspective of carbon emissions and try to obtain the largest amount of carbon emission reduction. From the perspective of enterprises and consumers, it tries to analyze and obtain the optimization mechanism of emission reduction, limit the input cost of enterprises, and optimize the value of each technology For decision-making variables, the simulation stipulates a specific vehicle model for modeling, draws out how to implement vehicle exhaust emission reduction technology, proposes specific research strategies, and obtains the optimal planning scheme. The research in this paper shows that, under the constraints of cost constraints, the rational use of emission reduction technology will reduce carbon emissions by half relative to the standard value.

KEY WORDS : Environmental degradation ; emission reduction technologies, ; carbon emissions,; optimal solutions

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