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# Reduced Emissions and Fuel Consumption in Automobile Engines



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# Reduced Emibions And Fuel Consumption In Automobile Engines

**Tao Wei**



## **Reduced Emissions And Fuel Consumption In Automobile Engines:**

*Reduced Emissions and Fuel Consumption in Automobile Engines* Fred Schäfer, Richard van Basshuysen, 2014-04-18 Over the last several years there has been much discussion on the interrelation of CO<sub>2</sub> emissions with the global warming phenomenon This in turn has increased pressure to develop and produce more fuel efficient engines and vehicles This is the central topic of this book It covers the underlying processes which cause pollutant emissions and the possibilities of reducing them as well as the fuel consumption of gasoline and diesel engines including direct injection diesel engines As well as the engine related causes of pollution which is found in the raw exhaust there is also a description of systems and methods for exhaust post treatment The significant influence of fuels and lubricants both conventional and alternative fuels on emission behavior is also covered In addition to the conventional gasoline and diesel engines lean burn and direct injection gasoline engines and two stroke gasoline and diesel engines are included The potential for reducing fuel consumption and pollution is described as well as the related reduction of CO<sub>2</sub> emissions Finally a detailed summary of the most important laws and regulations pertaining to pollutant emissions and consumption limits is presented This book is intended for practising engineers involved in research and applied sciences as well as for interested engineering students [Reduced Emissions and Fuel Consumption in Automobile Engines](#)

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comprehensive analysis of cutting edge technologies that could revolutionize vehicle design and fuel efficiency paving the way for a more sustainable future This book analyzes the performance of solar electric water and air based engines These technologies can be combined to create the revolutionary tribrid engine that combines the three technologies to create an environmentally friendly automobile Electric motors are known for their low emissions and solar has the potential to amplify this ability Water powered engines react with oxygen in the air to create fuel causing fewer emissions and improved fuel economy Compressed air motors are pressure driven diminishing our reliance on fossil fuels Their combined potential in the tribrid model presents revolutionary innovations for how we power automobiles This volume provides an in depth exploration of these technologies providing an advanced understanding of their fundamentals and potential for combination in a tribrid model making it essential for innovators in the automotive sector

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