

Road Vehicle Aerodynamic Design Second Edition

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Road Vehicle Aerodynamic Design Barnard
With these five steps, aerodynamics has been adapted to road vehicles, rather than road-vehicle configurations being determined by the demands of aerodynamics. The shape of cars changed in an evolutionary rather than a revolutionary manner over the years (Figure 6), and at first for reasons other than aerodynamic ones.

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Automotive aerodynamics differs from aircraft aerodynamics in several ways. First, the characteristic shape of a road vehicle is much less streamlined compared to an aircraft. Second, the vehicle operates very close to the ground, rather than in free air. Third, the operating speeds are lower (and aerodynamic drag varies as the square of speed

Automotive aerodynamics - Wikipedia
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Quite a basic introduction to aerodynamics really. Some of the fundamental problems with road vehicles are addressed but the solutions specified are vague and limited. It's a good buy for a someone with no knowledge of aerodynamics but for engineers I'd advise something more technical like Aerodynamics of road vehicles by Wolf-Heinrich Hucho.

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M. Klein, H. Sobieczky, in Inverse Problems in Engineering Mechanics III, 2002. ABSTRACT. Aerodynamic design of high speed airfoils and wings is carried out by a new Genetic Algorithm software and applied to novel configurations like the Oblique Flying Wing. The goal is achieved by establishing a flexible input data generator for both direct and inverse design: geometry and flow quality ...