
Aerodynamic Drag Reduction Technologies Proceedings

aerodynamic drag reduction technologies testing of heavy ... - aerodynamic drag reduction technologies testing of heavy-duty vocational vehicles and a dry van trailer adam ragatz and matthew thornton national renewable energy laboratory produced under direction of california air resources board (carb) by the national renewable energy laboratory (nrel) under work for others **simple and low-cost aerodynamic drag reduction devices for ...** - 1 2003-01-3377 simple and low-cost aerodynamic drag reduction devices for tractor-trailer trucks richard m. wood and steven x. s. bauer solus - solutions and technologies **airframe drag/weight reduction technologies - nasa** - airframe components -drag and weight •breguet range equation •technologies to reduce weight and drag are crucial regardless of selected configuration often previous drag and weight reduction concepts in conflict with each other • -e.g. -increased span at cost of increased weight... **reducing aerodynamic drag and rolling resistance from ...** - reducing aerodynamic drag & rolling resistance from heavy duty trucks! summary of 'available technologies' & applicability to chinese trucks! final! october! 2012! **reducing aerodynamic drag and fuel consumption** - reducing aerodynamic drag and fuel consumption improved fuel economy from other shape changes the doe effort to reduce truck aerodynamic drag* the doe energy efficiency and renewable energy, office of freedomcar & vehicle technologies, supports a collaborative effort of 9 organizations: Inl, snl, anl, nasa ames, usc, caltech, utc, auburn, gtri **transport canada - ecotechnology for vehicles program hdv ...** - •help to identify and quantify the optimal combinations of drag reduction technologies to enhance hdv aerodynamic efficiency, and •support the regulatory development process and understand canadian-unique considerations, i.e. drag technologies for long combination vehicles (lcvs). **aiaa 2003-0209 aerodynamic drag and drag reduction: energy ...** - aerodynamic drag reduction research is presented and example aerodynamic drag and fluid-dynamic resistance reduction technologies that have crossed over from one area to another are discussed. a second objective of this paper is to develop an energy-based argument for the discussion of drag and drag management issues in **impact of advanced aerodynamic technology on ...** - end, a discussion of aerodynamic drag reduction research is presented and example aerodynamic drag and fluid-dynamic resistance reduction technologies that have crossed over from one discipline to another are discussed. a second objective of this paper is to develop an energy-based argument for the discussion of **cfD analysis of aerodynamic drag reduction and ... - ijmerr** - reduction in aerodynamic drag force is 10%. keywords: aerodynamics, drag reduction, fuel consumption, computational fluid dynamics, bus 1 engineer trainee, hepatica technologies private limited, bangalore, india. 2 engineer trainee, cad centre private limited, pollachi, india. introduction due to the global climate change of today **aviation technology, integration, and operations ...** - drag reduction through distributed electric propulsion alex m. stoll and joe ben bevirty joby aviation, santa cruz, california, 95060 mark d. moorez, william j. fredericks x, and nicholas k. borer {nasa langley research center, hampton, virginia, 23681 one promising application of recent advances in electric aircraft propulsion technologies **aerodynamic drag reduction of class 8 tractor-trailers ...** - • aerodynamic drag is a serious reason for lower fuel efficiency in trailer trucks • areas of air drag reduction approaches are identified • 3d printed scale model of trailer truck and various attachments were manufactured, followed by wind tunnel test • using the cfd module in solidworks was used to simulate the effects of **preliminary analysis of drag reduction for the boeing 747-400** - aerodynamic analysis using the cassc software was conducted on the boeing 747-400 aircraft for steady state flight conditions. a preliminary estimate of drag reduction is between 2% and 4% for cruise conditions. this is based on estimated area of flow separation and results from previous vc finlet tests. **a discussion of a heavy truck advanced aerodynamic trailer ...** - advanced technologies that include aerodynamic drag reduction for both the tractor and the trailer. an assessment of on-road heavy truck energy consumption, for still air conditions, shows that the primary energy losses are due to drive-train, rolling friction, and aerodynamic drag, hucho, 1988. it is well **transport canada - university of notre dame** - although friction drag occurs along the external surfaces of heavy vehicles, particularly along the sides and top of buses and trailers, its contribution to overall drag is small (10% or less) and is not a strong candidate for drag-reduction technologies. **aerodynamic study and drag coefficient optimization of ...** - aerodynamic drag reduction devices have been developed. these technologies have shown a combined fuel savings of 10% at an average speed of 76 kmph. g. frank et al. (2009) [3] worked on unsteady flow around ahmed vehicle model using numerical methods. 2. methodology present study involves investigation of aerodynamic

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