



Analysis of the internal ventilation for a motorcycle helmet

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VDM Verlag Dez 2010, 2010. Taschenbuch. Book Condition: Neu. 220x150x13 mm. This item is printed on demand - Print on Demand Neuware - Thermal comfort is a fundamental issue for riders to take care of, especially in countries with very hot summer climate: the temptation of leaving out wearing the helmet turns out to be too strong if it is not sufficiently ventilated, with obvious consequences in terms of risk of injuries for the heat of the rider. For these reasons it is important for each helmet to be equipped with an efficient ventilation system, which should be able to remove the heat and sweat produced by the head of the rider. At the moment there is a total lack of fluiddynamic guidelines for the design of such ventilation systems, which are drawn only according to intuition and experience. The scope of this thesis is to present an innovative methodology for the numerical simulation of the internal ventilation of a motorcycle helmet, based on a thermo-fluid-dynamic model capable of describing evaporation-related heat transfer phenomena. The model has been mathematically analyzed and subsequently tested on sample 2D problems. However, it has the peculiarity of being potentially implementable on most commercial CFD...



Reviews

This publication is amazing. It is definitely basic but shocks in the fifty percent of your publication. You wont feel monotony at anytime of your own time (that's what catalogues are for concerning if you question me).

-- Prof. Kirk Cruickshank DDS

This kind of book is every little thing and taught me to looking ahead of time and a lot more. I am quite late in start reading this one, but better then never. I found out this book from my dad and i encouraged this pdf to find out.

-- Justus Hettinger