

Shia-Hui Peng



Dr Shia-Hui Peng

B. Engn. (1987), Power and Energy Engineering, Huazhong University of Science and Technology (HUST), Wuhan, China.

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Tekn. Lic. (1994), Energy Technology, Royal Institute of Technology (KTH), Stockholm.

PhD (1998), Thermo and Fluid Dynamics, Chalmers University of Technology (Chalmers), Göteborg.

Docent (2001), Mechanical Engineering, Chalmers University of Technology (Chalmers), Göteborg.

Dr Peng has been working in the Swedish Defence Research Agency, FOI, since 2001. He was appointed as Deputy Research Director in 2003 and Research Director in CFD and Turbulence Modelling in 2006. He was adjunct professor in Computational Fluid Dynamics (2006 – 2014) at Chalmers, and guest professor in Computational Thermal and Fluid Dynamics (2009 – 2014) at KTH. He is currently guest professor (in Computational Aeronautical Engineering) at Chalmers.

The main research activities of Prof Peng have been in general on fluid flow and heat transfer, particularly on computational modelling and simulations of fundamental flow physics as well as for industrial applications, primary in aeronautic engineering and also to environment and energy systems. Over the recent years, a large part of his research has been dedicated to computational analysis of aerodynamic performance, flight physics and loads-, noise- and flow control of air vehicles and aerosystems. His recent research interest has been air vehicles with hybrid electric propulsion system and machine learning in flow modelling and simulations.

Prof Peng is the Chair/Co-Chair of the 1st to 7th international Symposium of Hybrid RANS-LES Methods. He has been active in coordinating or supporting activities organized by ERCOFTAC, EREA and GARTEUR.