

國立中山大學應用數學系

學術演講

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講題：An accurate and robust CFD solver on
unstructured grids for complex flows

時間：2014/10/28 (星期二) 16:10 ~ 17:00

地點：理學院四樓理 SC 4011 室

茶會：15:30 於理 SC 4010 室 (系辦公室)

摘要

This talk presents a robust, accurate and practical numerical framework for computational fluid dynamics on unstructured grids with arbitrary elements. The numerical method treats the point value (PV) at the cell vertexes as a new computational variable in addition to the volume integrated average (VIA) that is the only computational variable in the conventional finite volume method. The present method is much superior to the conventional finite volume method in respect of accuracy and robustness, and easy to accommodate various physical models for real-case applications. The present method provides a practical solver for complex flows in presence of complex geometries, which is well balanced between numerical accuracy and computational complexity.

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