

車輛工程系  
Department of Vehicle  
Engineering

計算流體力學  
Computational Fluid  
Dynamics

計算物理研究實驗室  
Computational Physics  
Research Group



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■ 研究領域

大氣電漿流體控制、  
計算流體力學、  
流場可視化與量測

■ 近期研究主題

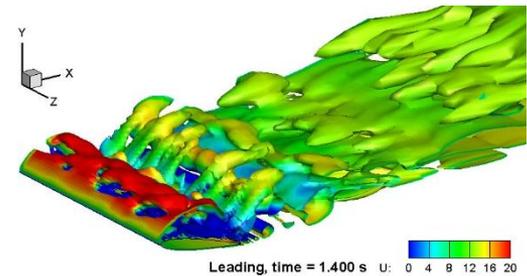
- 電漿流體控制撲翼分析
- 狹縫式塗佈流場分析
- 電漿致動器應用於卡車模型之空氣阻力分析
- 人字形凹槽流體動壓軸承數值分析

■ Research Area

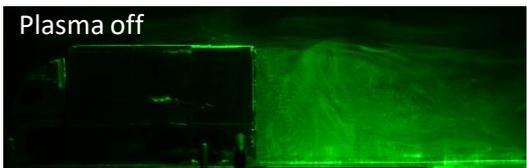
Plasma actuators based flow control,  
Computational fluid dynamics, Flow  
visualization and measurements

■ Recent Topics

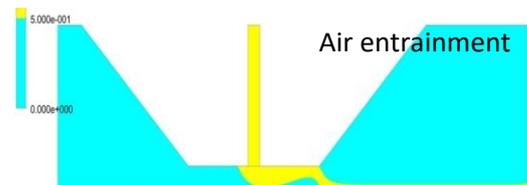
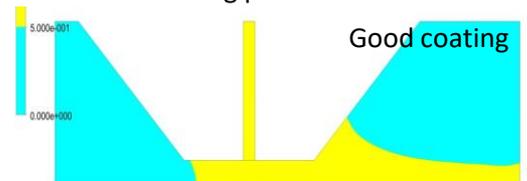
- Numerical analysis of a flapping wing using a plasma actuator
- Numerical analysis of slot-die coating processes
- Aerodynamic drag reduction for a truck model using plasma actuators
- Numerical analysis of a hydrodynamic herringbone-grooved bearing



電漿致動器在機翼前緣控制撲翼  
Flapping wing with a plasma actuator  
at the leading edge



電漿致動器用於卡車模型之阻力減弱  
Aerodynamic drag reduction for a truck  
model using plasma actuators



狹縫式塗佈流場缺陷數值分析  
Numerical analysis of slot-die coating defects