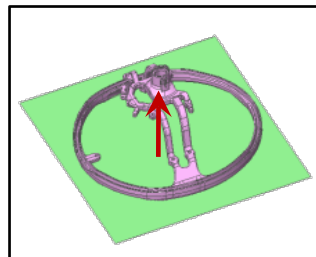


# 方向盤-結構安全評估

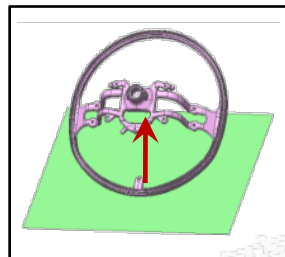
## •NFX求解類型

- 幾何非線性
- 材料非線性
- 接觸非線性

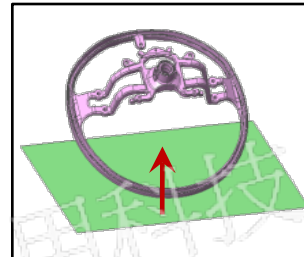
## 邊界條件



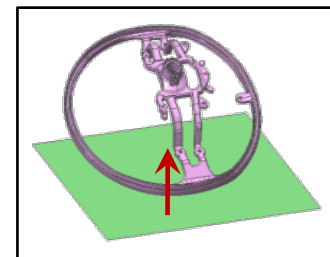
<負載1>



<負載2>



<負載3>



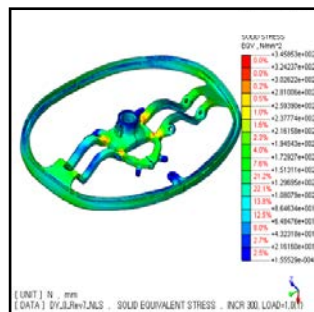
<負載4>

## 產業應用案例

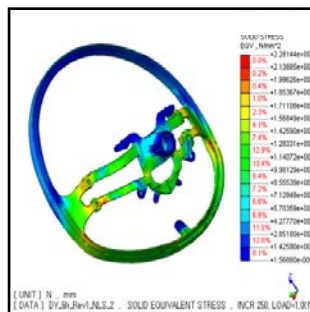


## 分析結果

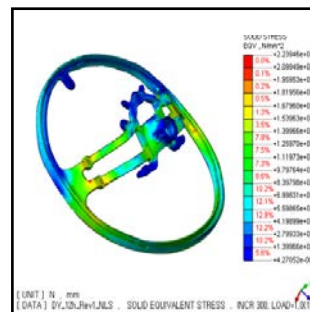
<CASE 1>



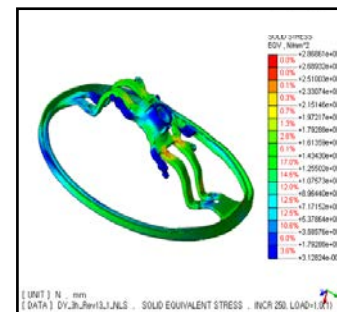
<CASE 2>



<CASE 3>



<CASE 4>

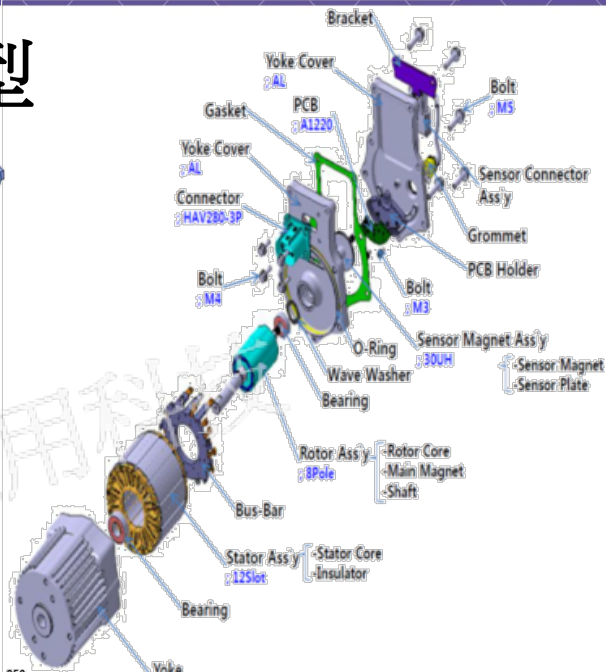
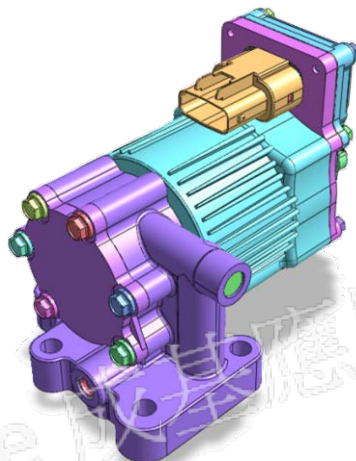


# 馬達-瞬態熱傳/熱應力分析 midas NFX

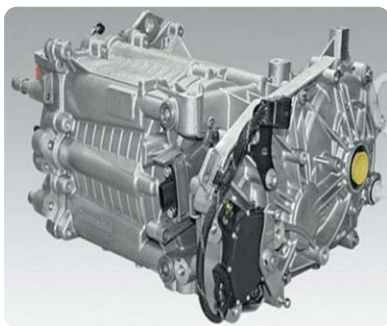
## ●NFX求解類型

- 瞬態熱分析
- 結構分析(線性/非線性)

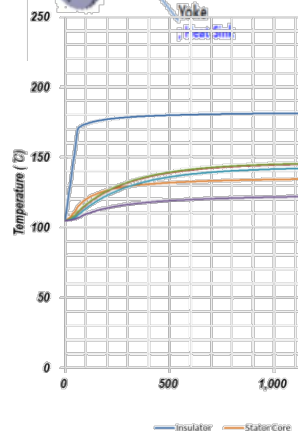
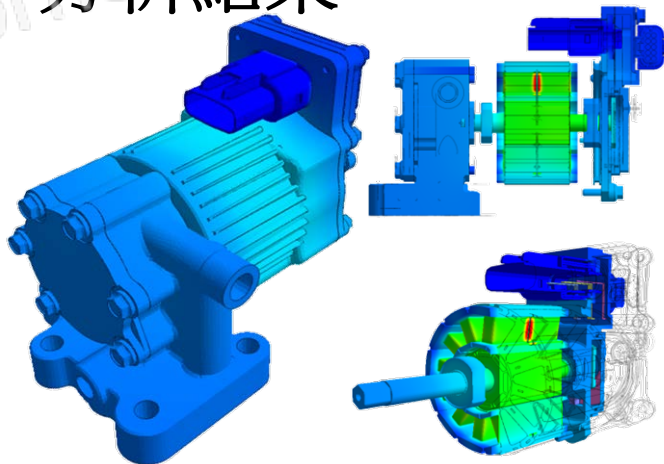
## 馬達3D模型



## 產業應用案例



## 分析結果



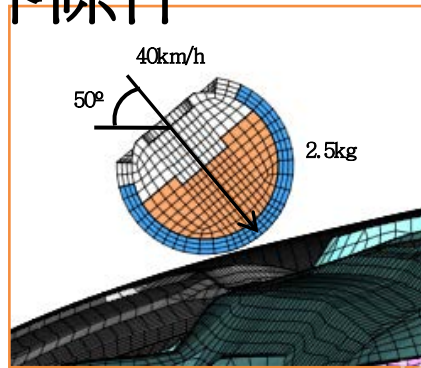
Part	Max. Temp (°C)
Insulator	212.33
Stator Core	146.76
Rotor Core	163.97
Main Magnet	164.14
Shaft	159.08
Yoke	128.51

# 行人頭部-衝擊分析 (ENCAP)

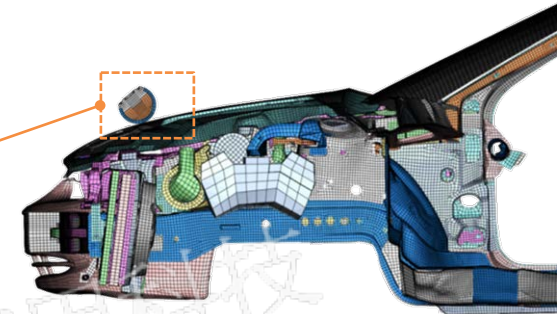
## • NFX求解類型

- 顯式動態分析
- 隱式非線性分析

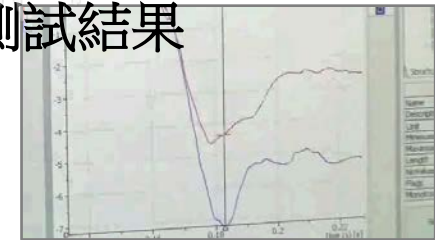
## 邊界條件



BL=0 Section



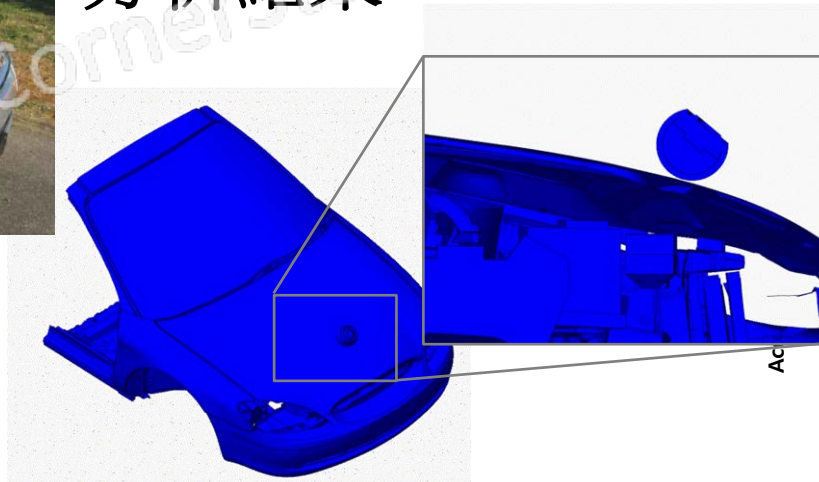
測試結果



## 產業應用案例

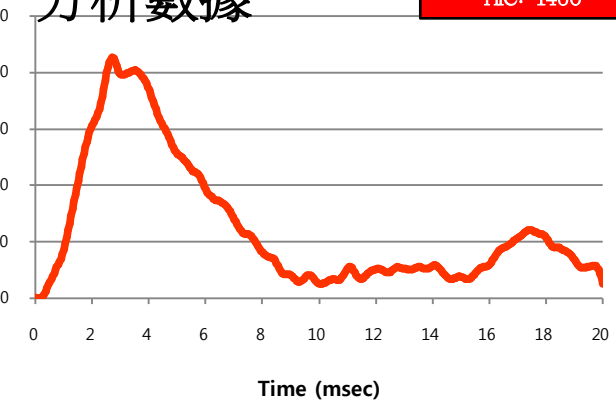


## 分析結果



## 分析數據

HIC: 1460



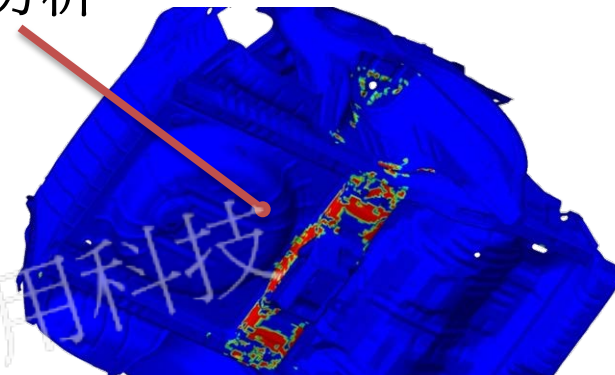
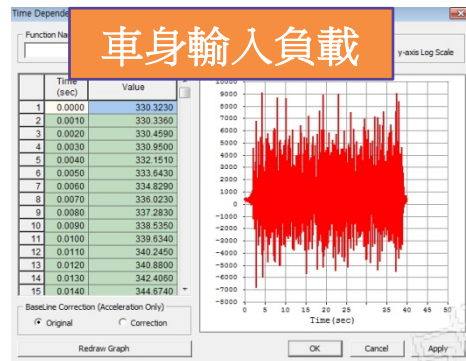
# 車體-振動疲勞分析

## •NFX求解類型

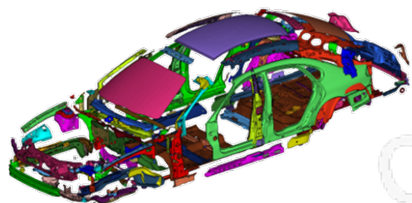
- 瞬態響應分析
- 疲勞分析

## 邊界條件

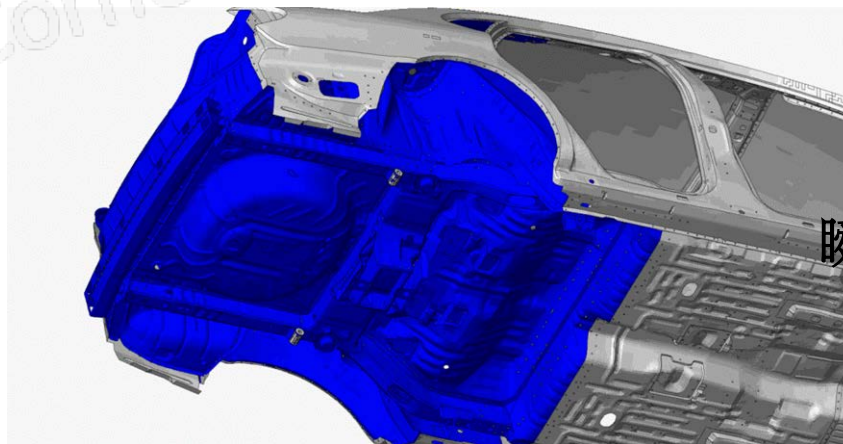
## 疲勞分析



## 產業應用案例



## 分析結果



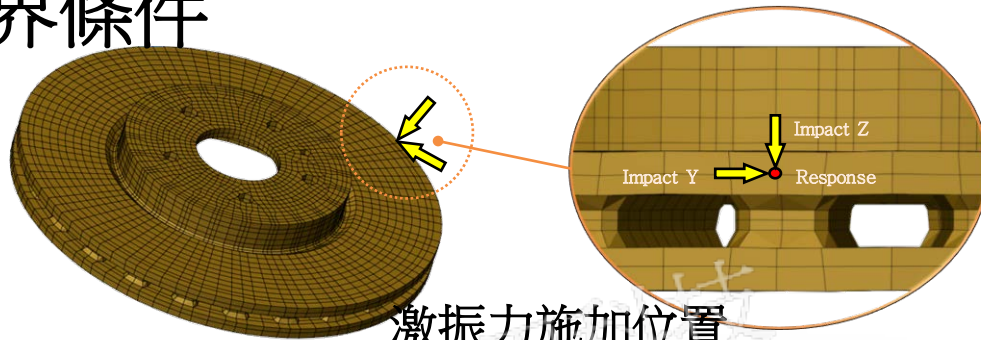
## 瞬態響應分析

# 剎車盤-頻率響應分析

## • NFX求解類型

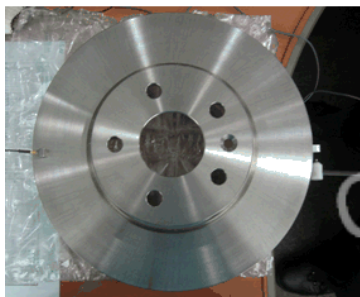
### • 頻率響應分析

## 邊界條件

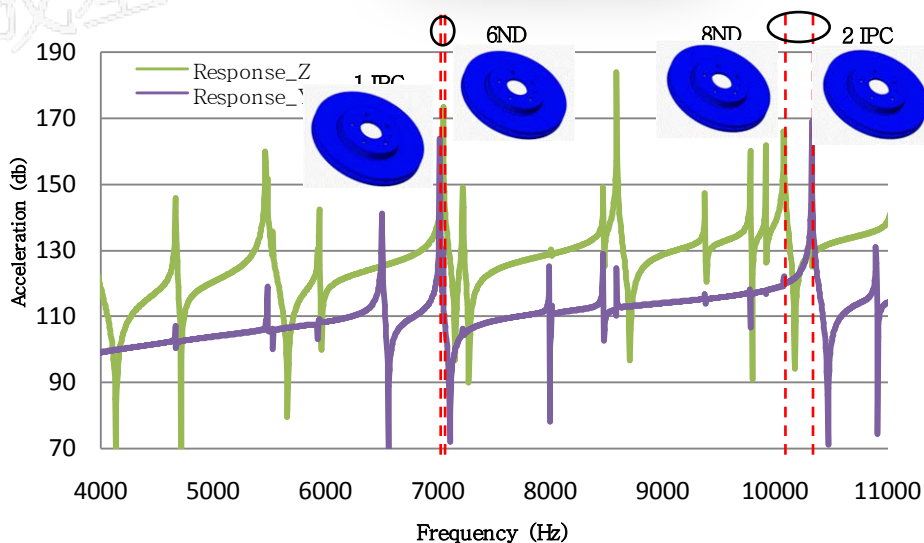
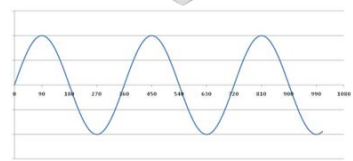
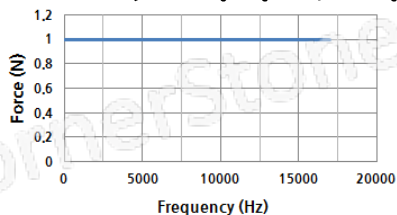


激振力施加位置

## 產業應用案例



## 分析結果



※ 噪音分佈：剎車過程量測之噪音頻率

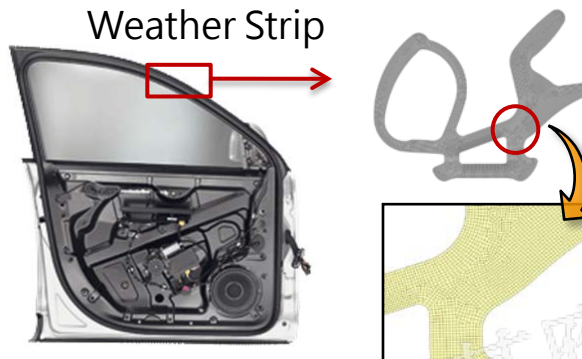
# 窗戶密封條-非線性分析

## •NFX求解類型

- 幾何非線性
- 材料非線性
- 接觸非線性

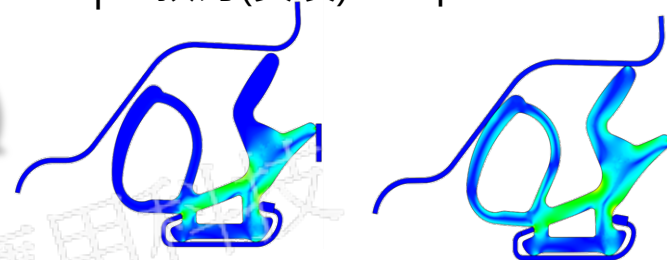
## 邊界條件

Weather Strip

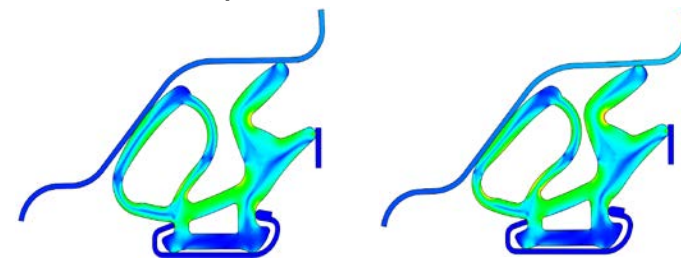


## 分析結果

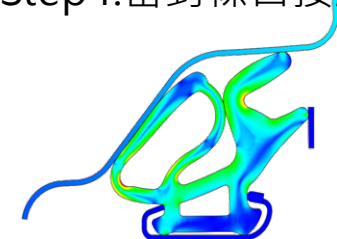
Step1.預力(安裝) Step2.門框初始接觸



Step3.變形和接觸過程



Step4.密封條自接觸



## 產業應用案例



➤安裝過程-預力分析



➤窗戶緊閉過程分析

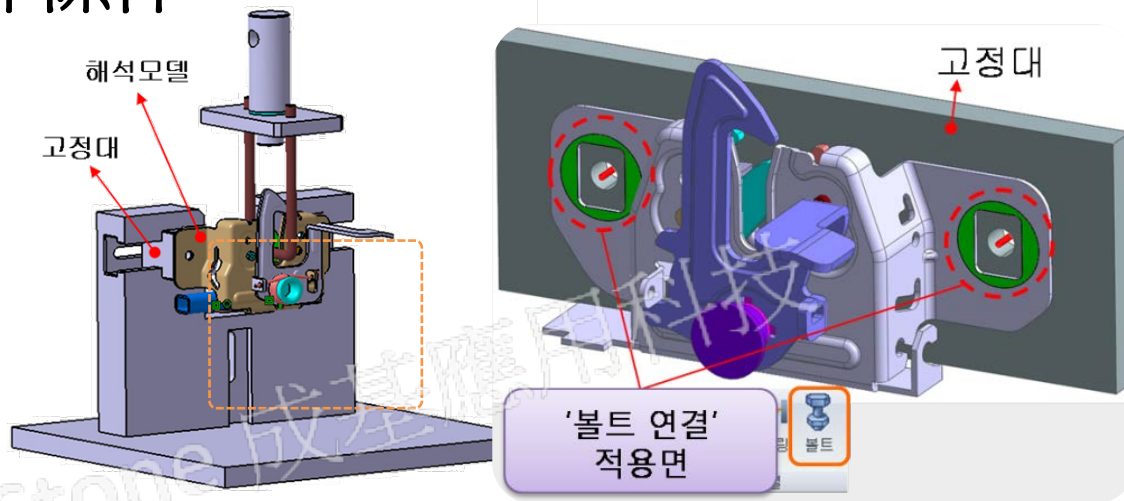


# 車用扣件-變形過程分析

## •NFX求解類型

- 幾何非線性
- 材料非線性
- 接觸非線性

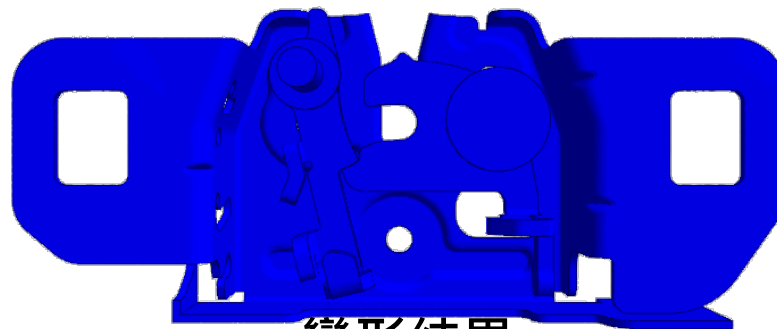
## 邊界條件



## 產業應用案例



## 分析結果



變形結果

# 側撞-安全性分析(FMVSS214S) midas NFX

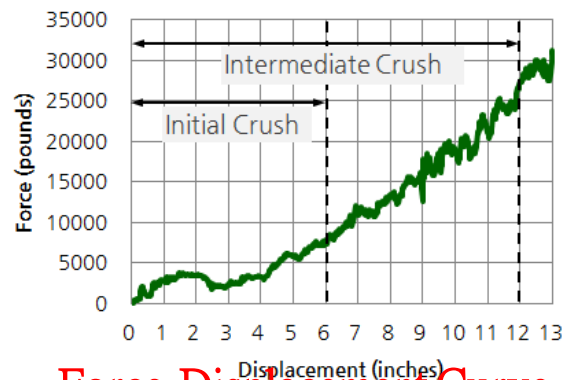
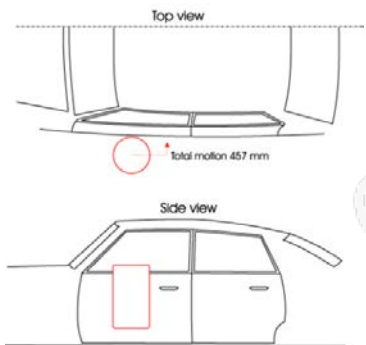
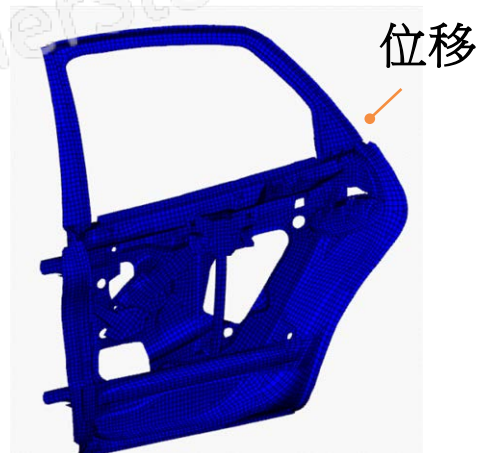
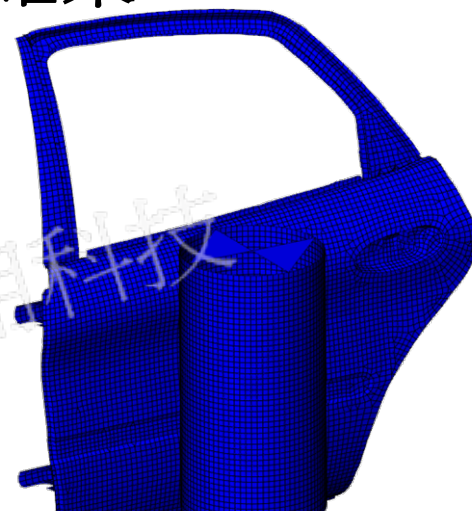
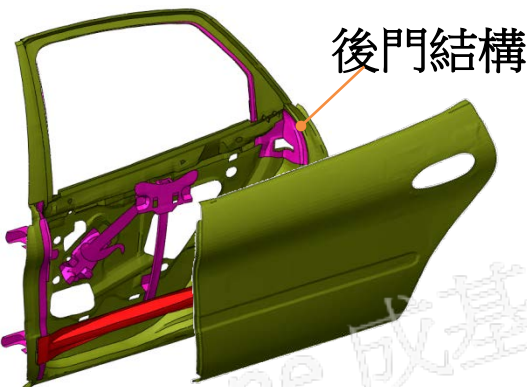
## • NFX求解類型

• 顯式動態分析

### 邊界條件

### 分析結果

### FMVSS法規



Force-Displacement Curve

\* Federal Motor Vehicle Safety Standard (美國聯邦機動車輛安全標準)