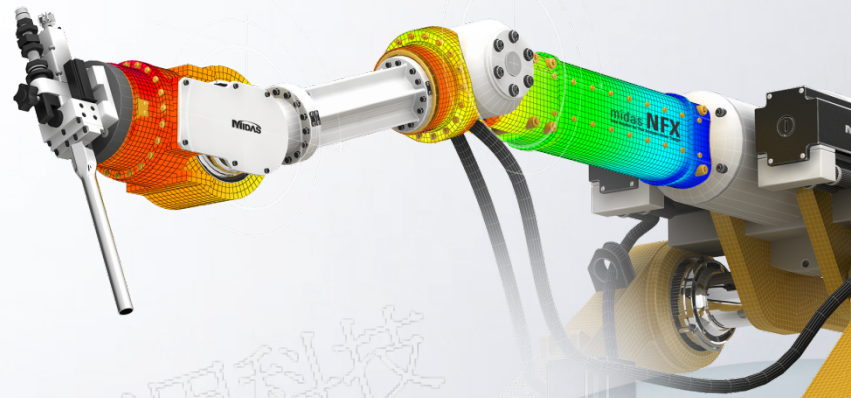
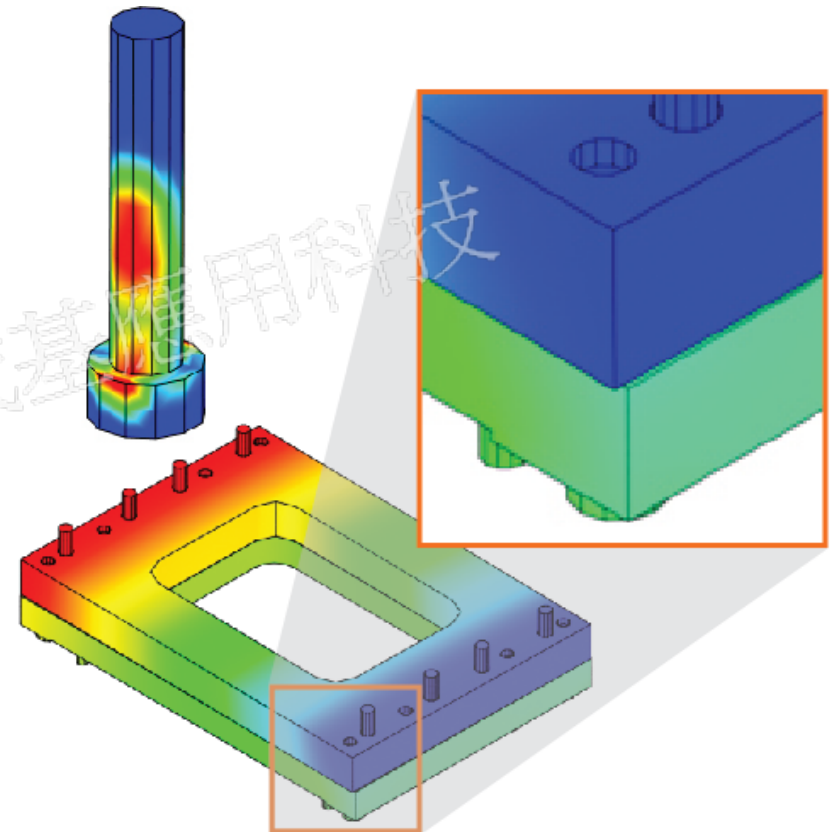
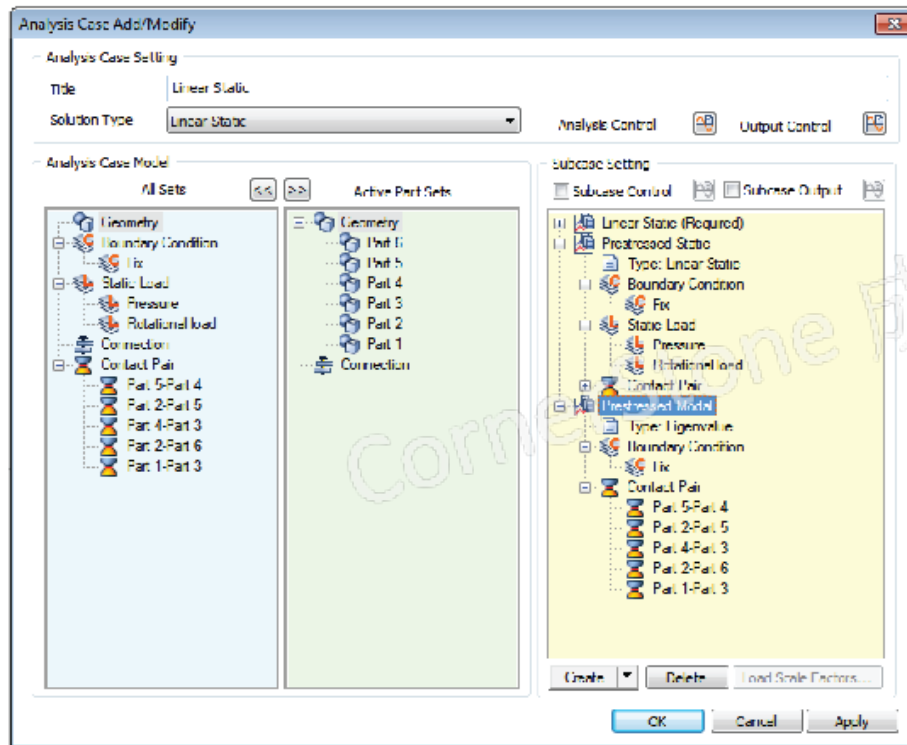


midas NFX

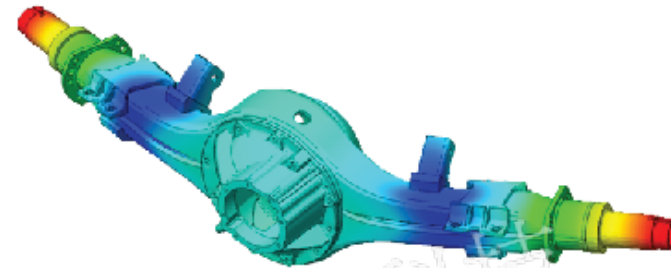


midas NFX 分析功能

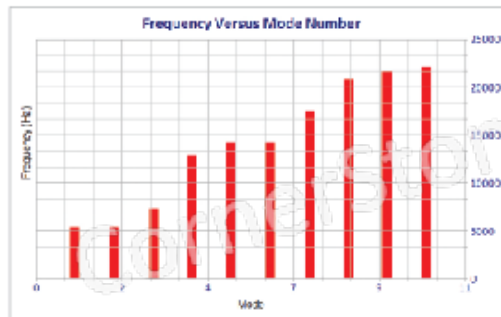
產品設計導向分析軟體



單一模型可以定義多種分析條件和類型，更能進行結果比較 採用線性滑動接觸進行螺栓相對變形及應力分析
(直觀的用戶界面 拖 & 拉 操作方式)



汽車車軸模態分析
(7th mode, Free-Free condition)

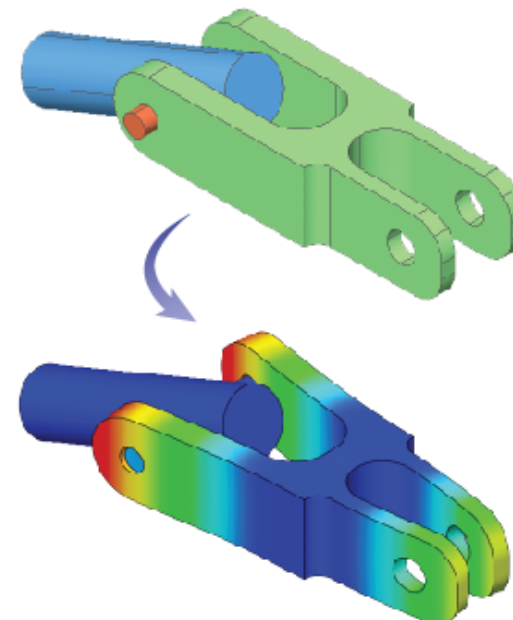


NUMBER	1	2	3	4	5	MASS	STIFFNESS	ORTHOGONALITY LOSS	ERROR MEASURE
1	1.84e+008	3.37e+004	5.37e+003	1.08e+000	1.16e+008	0.99e+000	1.97e-008		
2	1.14e+009	3.37e+004	5.37e+003	1.08e+000	1.14e+009	4.87e-010	1.24e-010		
3	2.80e+008	4.58e+004	7.30e+003	1.08e+000	2.80e+008	1.58e-011	1.17e-011		
4	6.45e+009	8.05e+004	1.28e+004	1.08e+000	6.45e+009	2.80e-010	8.41e-011		
5	7.07e+009	8.33e+004	1.40e+004	1.08e+000	7.07e+009	2.39e-011	3.52e-011		

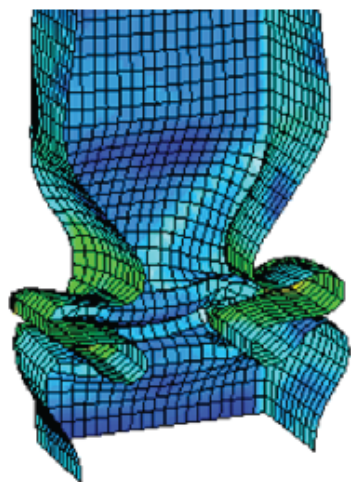
EFFECT OF MASS						
MODE NUMBER	T1	T2	T3	R1	R2	R3
1	2.76e-006	5.15e-003	0.00e+000	2.10e+001	1.86e-002	1.23e+001
2	5.15e-003	2.76e-006	0.00e+000	1.65e-002	3.18e+001	1.35e+001
3	0.00e+000	0.00e+000	0.00e+000	7.52e-015	2.95e-015	1.95e+001
4	0.00e+000	8.39e-015	8.01e-003	1.58e+001	1.58e+001	2.22e-011
5	3.48e-005	1.45e-003	0.00e+000	1.88e+001	2.55e-003	4.83e+000
TOTAL	5.15e-003	8.83e-003	8.01e-003	4.82e+001	4.81e+001	4.12e+001
TOTAL MODEL	7.66e-003	7.66e-003	7.06e-003	8.03e+000	8.03e+000	9.03e+000

PERCENTAGE MODAL PARTICIPATION						
MODE NUMBER	T1	T2	T3	R1	R2	R3
1	0.04%	65.42%	0.00%	0.00%	0.00%	0.00%
2	65.42%	0.04%	0.00%	0.00%	0.00%	0.00%
3	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
4	0.00%	0.00%	78.45%	0.00%	0.00%	0.00%
5	0.44%	18.07%	0.00%	0.00%	0.00%	0.00%

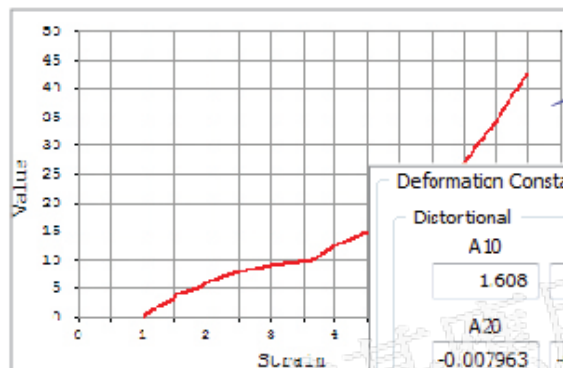
模態分析數值結果



模態分析
(組裝件滑動接觸)



鋼框架的非線性接觸分析



直接輸入測試數據

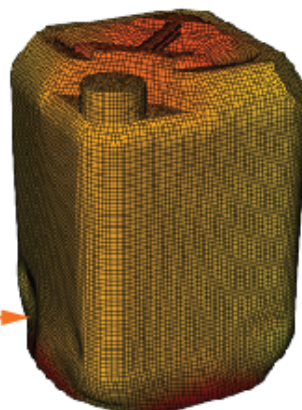
Deformation Constants

Distortional				Volumetric		
A10	A01			D1		
1.608	0.1451			1753		
A20	A11	A02				
-0.007963	-0.006808	0.000239				
A30	A21	A12	A03			
0.000326	0.0001867	-2.206e-06	7.579e-06			

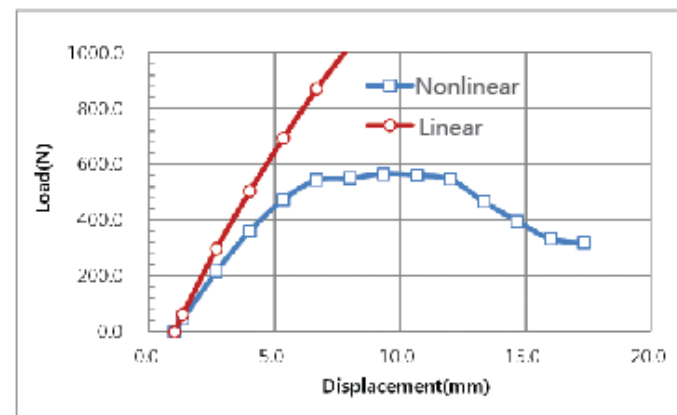
N/mm²



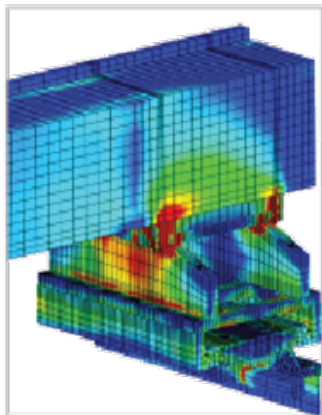
測試結果



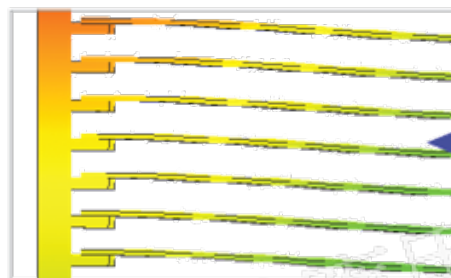
NFX 2012 分析結果



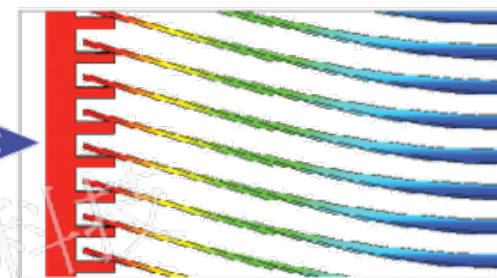
線性分析和非線性分析比較



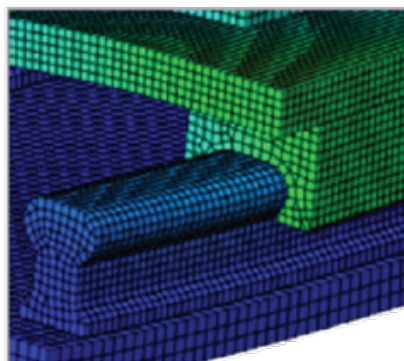
複雜的裝配模型使用自動接觸工具



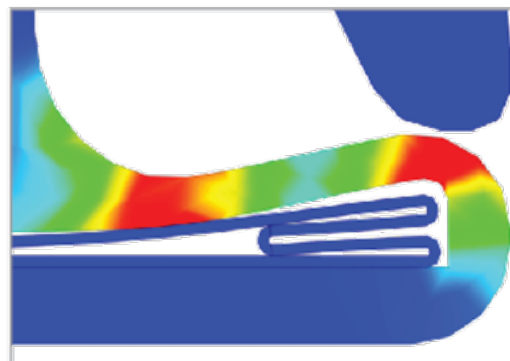
線性接觸
(單件移動)



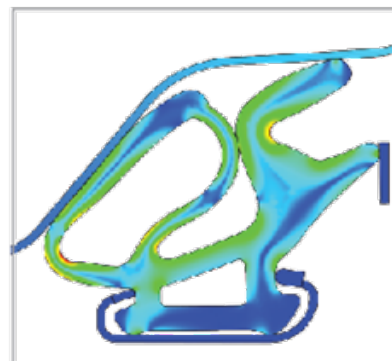
非線性接觸
(多件移動)



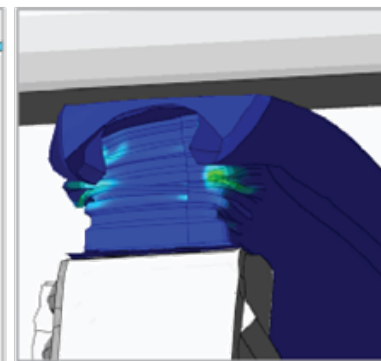
滑軌使用自動接觸



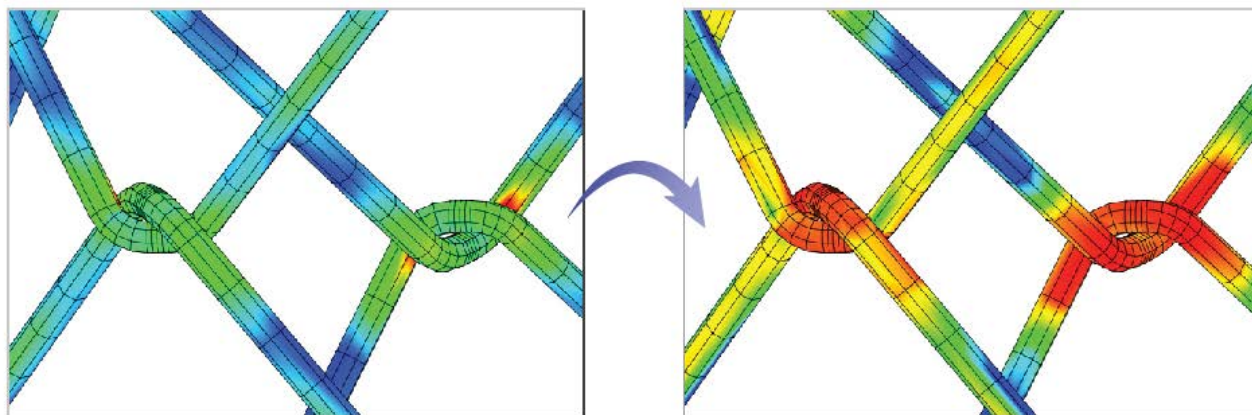
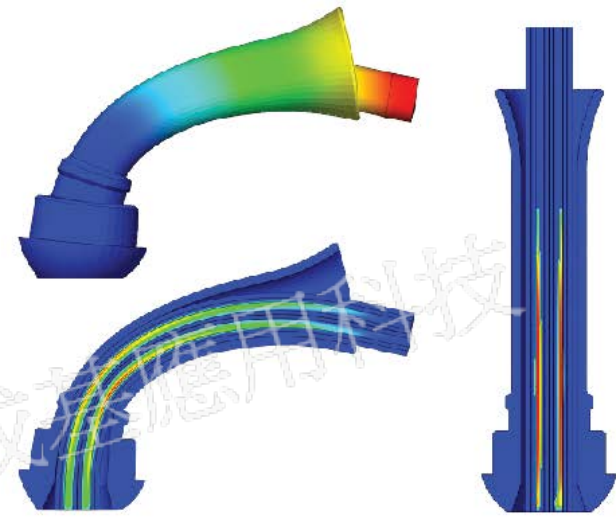
非線性接觸分析
汽車的門鎖傳感器



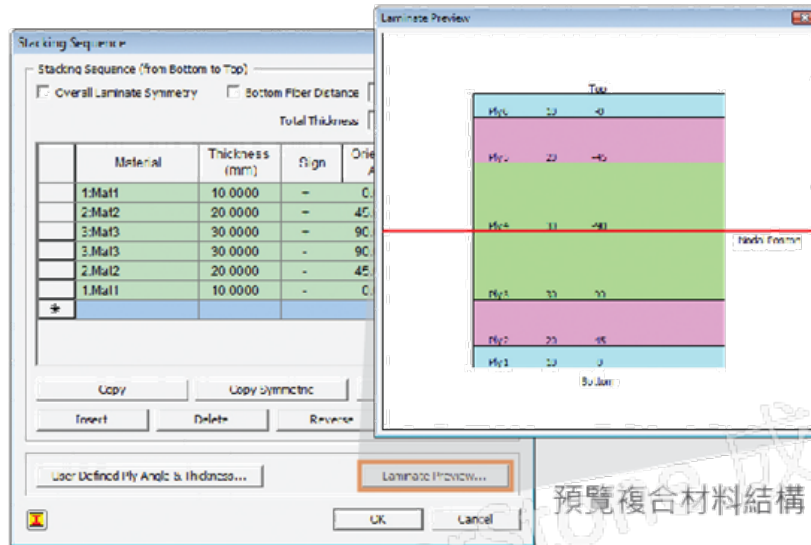
非線性接觸分析
擋風雨條



汽車的前保險槓碰撞

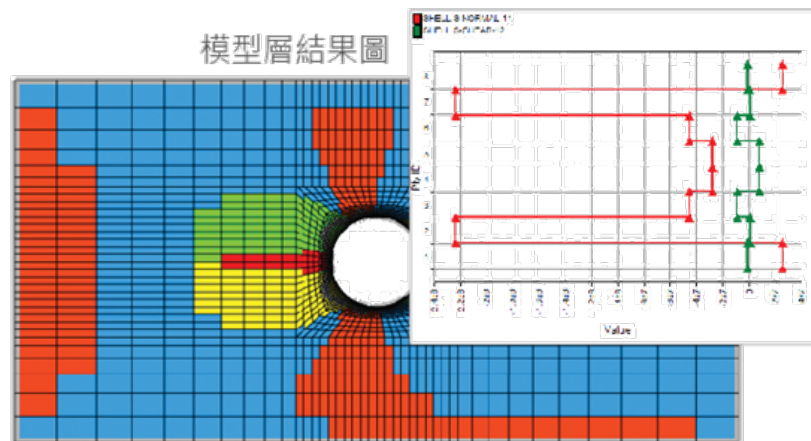


使用自動接觸功能進行靜態分析，並利用分析結果進行醫療支架疲勞壽命預測



預覽複合材料結構

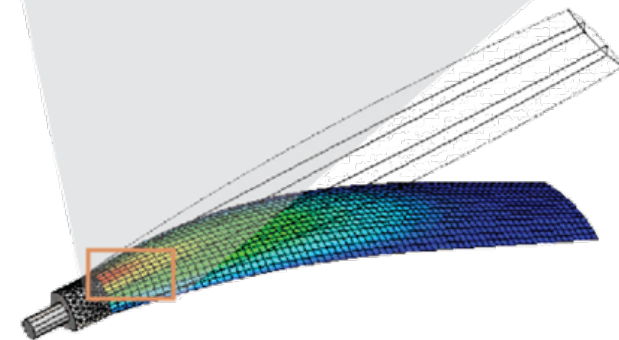
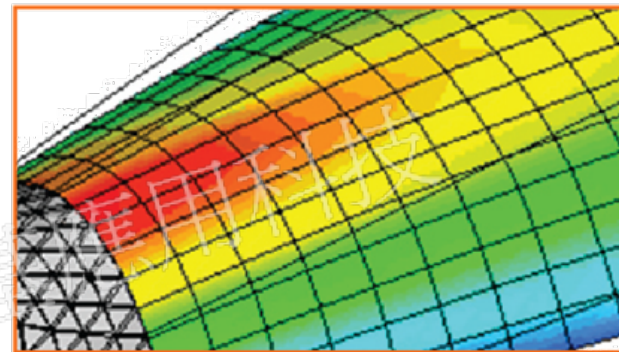
直觀的圖形用戶界面，用於定義每層結構
(相容MS-Excel格式)



模型層結果圖

每層最大值/最小值 (Contour, Iso-line)

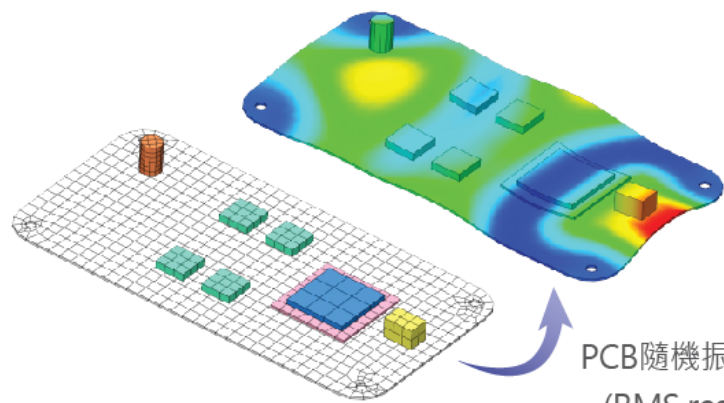
幾何非線性分析



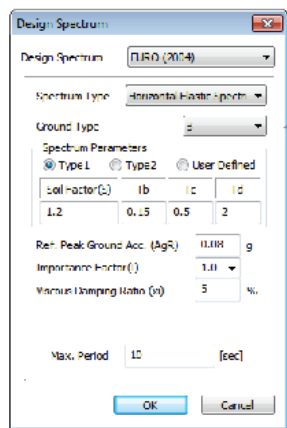
直觀的圖形用戶界面
(定義疊層材料結構)

線性動態分析(Linear Dynamic Analysis)

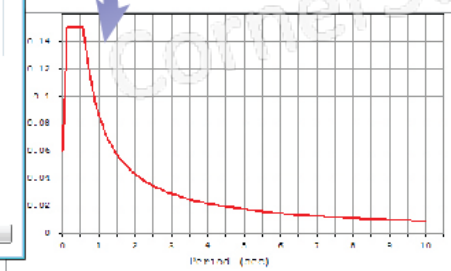
midas NFX



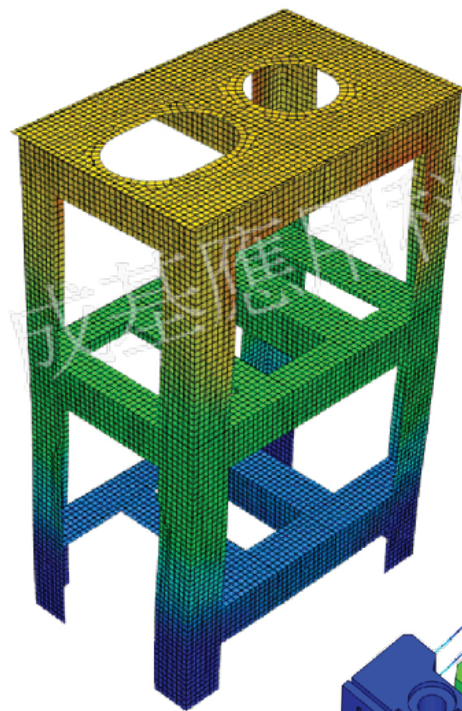
PCB隨機振動分析
(RMS results)



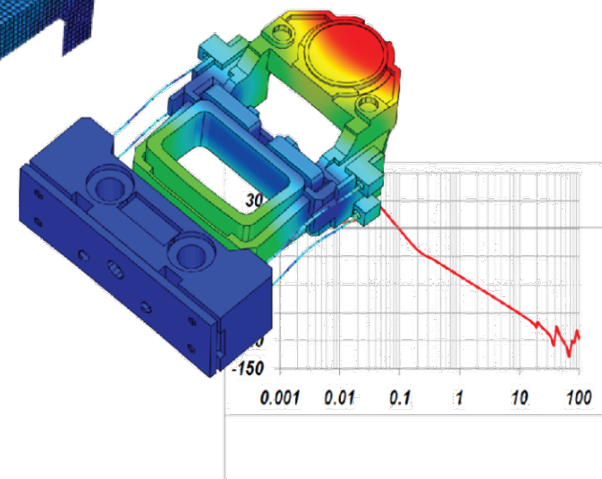
選擇/定義反應譜



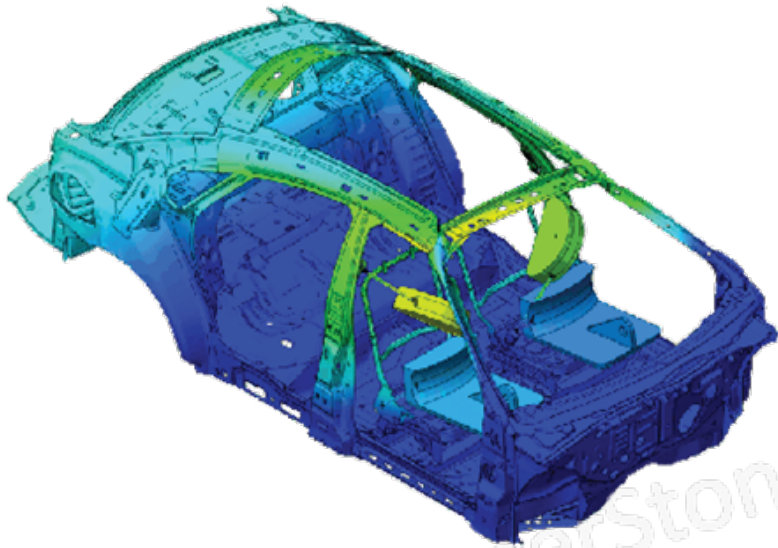
自動生成反應譜



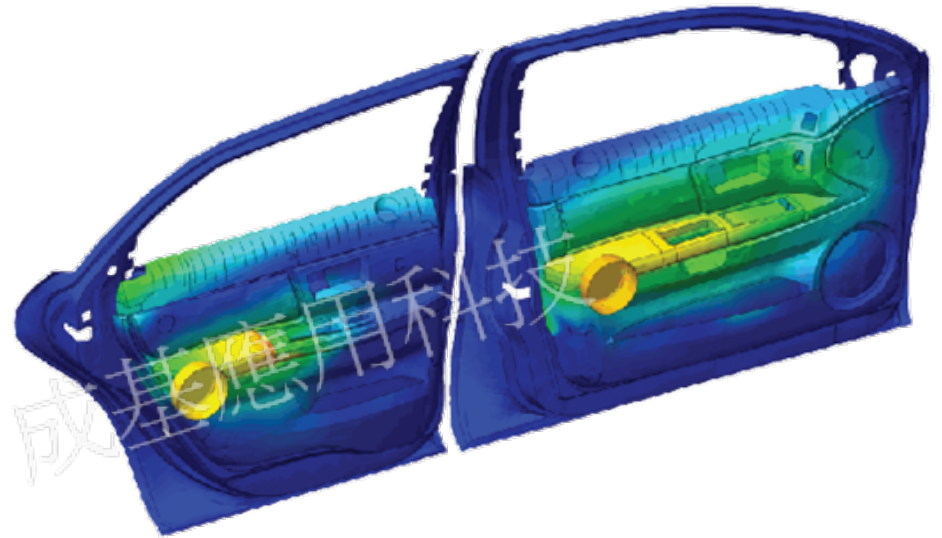
地震分析



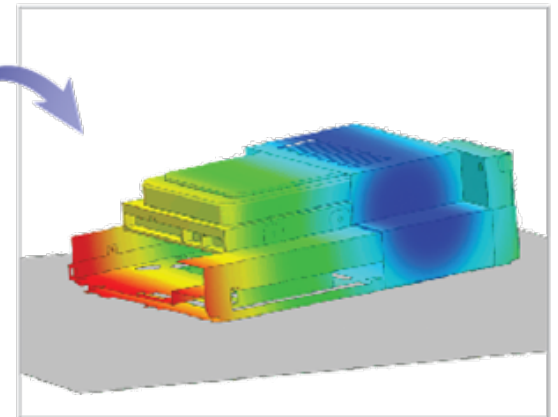
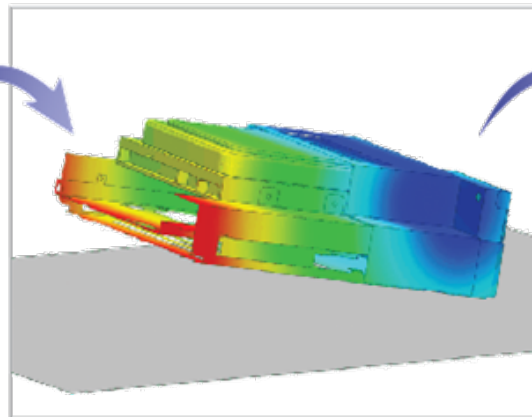
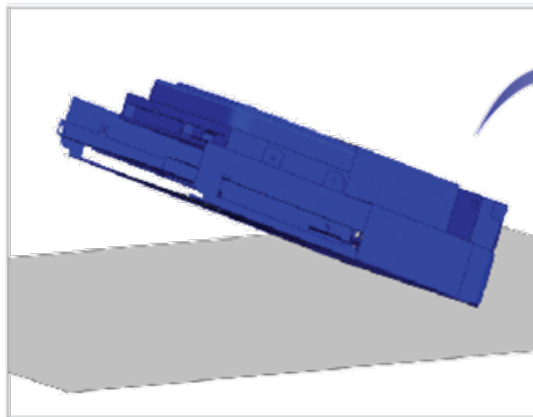
DVD-ROM受磁力作用之響應分析 (頻率響應分析)



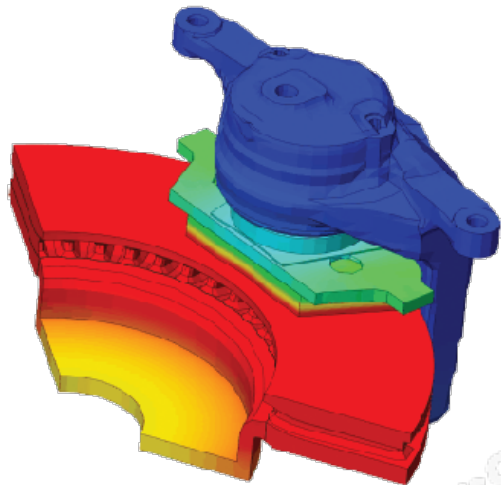
安全袋伸縮環分析



門飾板撞擊分析

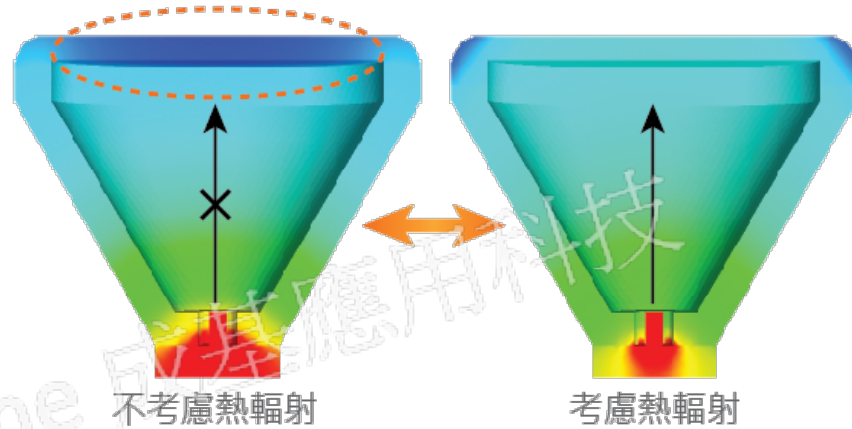


硬碟落摔測試

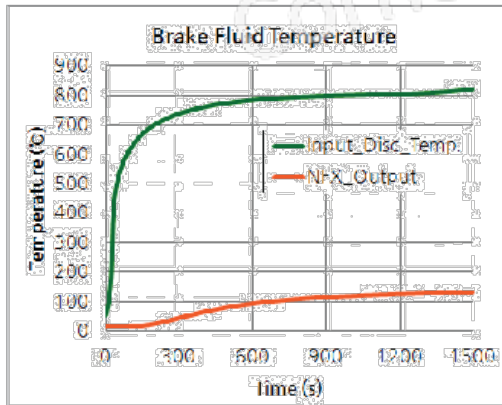


幾乎沒有增加溫度

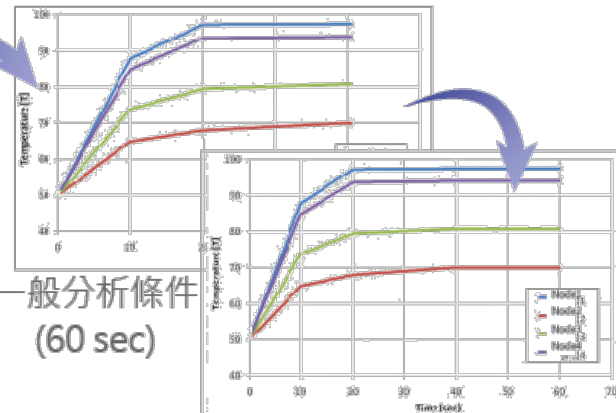
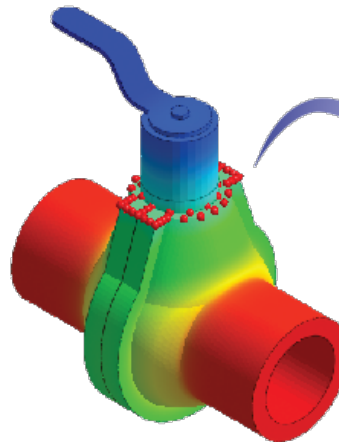
溫度上升



LED燈傳和輻射熱效應溫度分佈

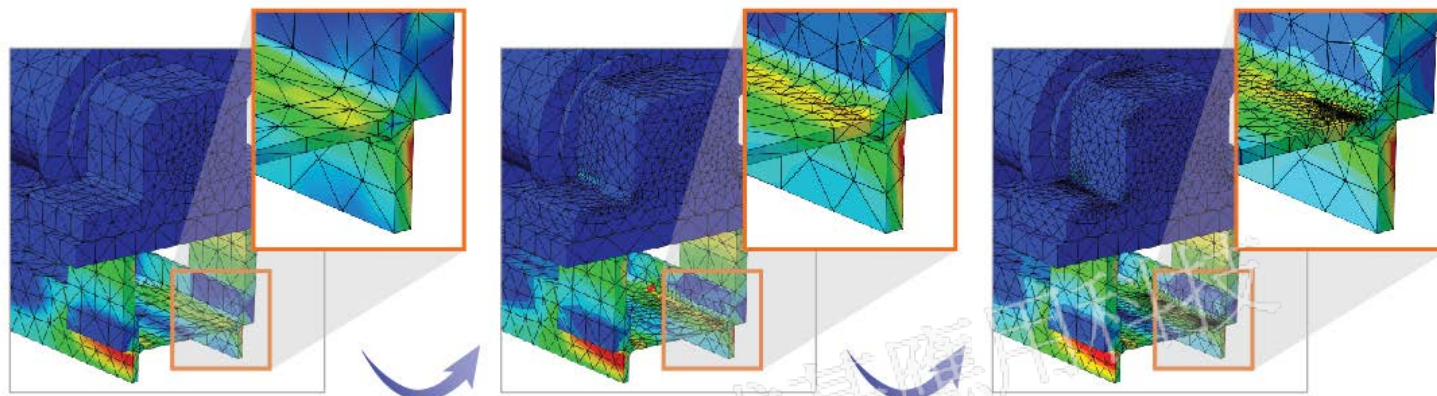


制動系統熱容分析
(瞬態熱分析·熱接觸應用)



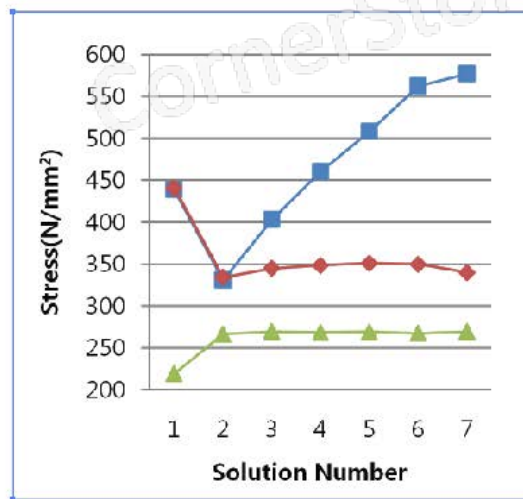
球閥瞬態熱分析
(使用傳感器)

計算完成時間在40.5 sec
(使用傳感器)

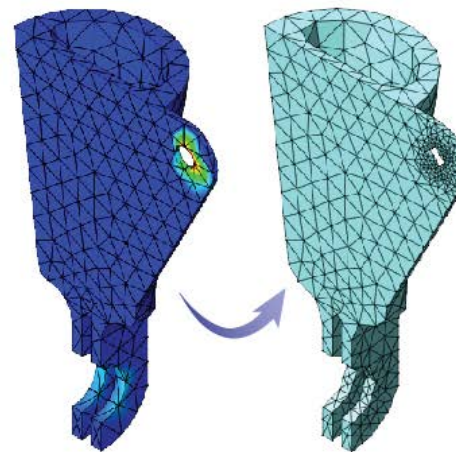


初始網格模型和集力集中區域

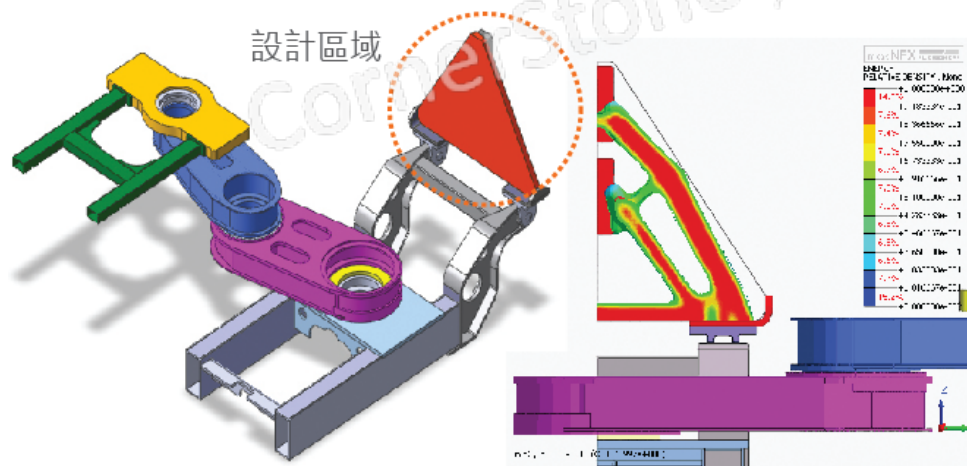
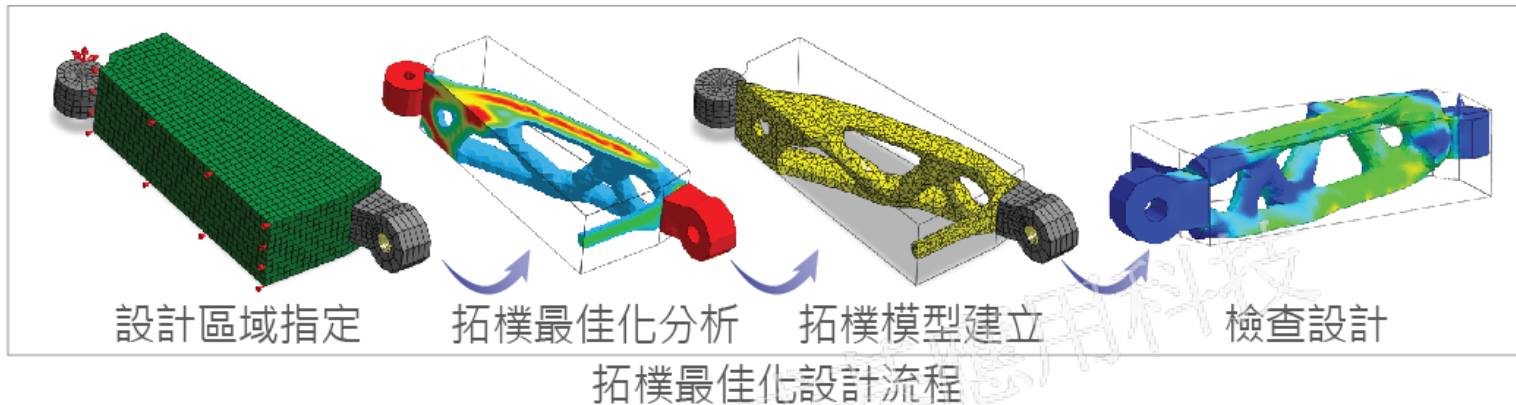
自適應網格分析將網格細化



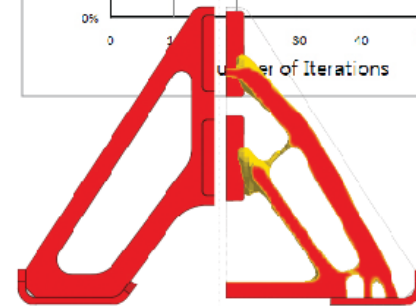
局佈區域最大應力變化



範例：粗糙網格自動加密
(錯誤目標: 小於2%)



使用拓樸工具進行概念設計
(線性結構, 設計目標: 輕量化設計)



與原本設計比較