



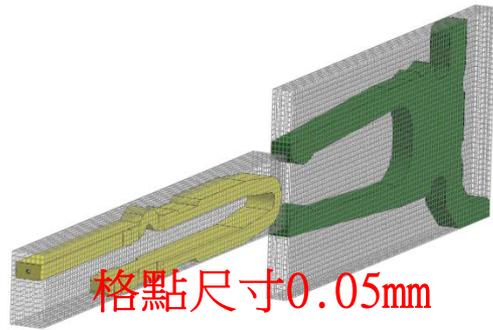
MESHFREE VS. NFX接觸比對 (無網格法 vs. 有限元素法)

台灣邁達斯
翁嘉駿

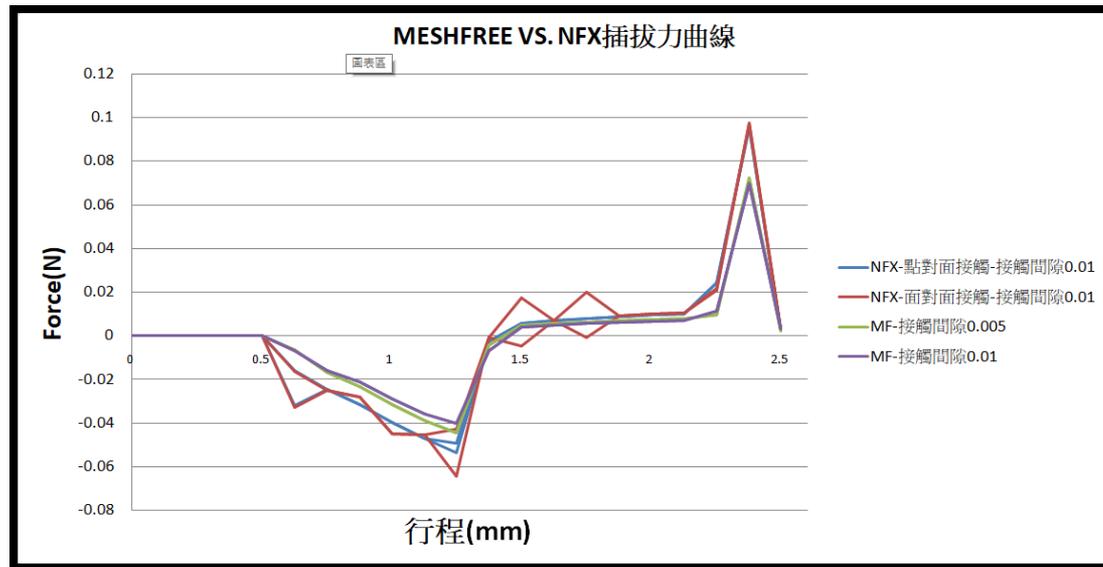
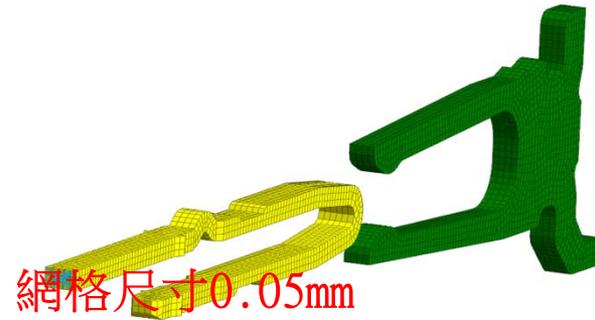
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MESHFREE-免網格模型



NFX-有限元素模型



MESHFREE - 免網格分析軟體

```
[SYSTEM INFO]
NUMBER OF THREADS : 8
MAXIMUM MEMORY USAGE : 3140 MB
AVAILABLE MEMORY : 50802 MB
TOTAL CPU TIME : 3433.06 sec
WALL CLOCK TIME : 956.383 sec
GPU INFO : GeForce GTX 1050 Ti, 1.455 GHz, 768 CUDA CORE, COMPUTE CAPABILITY = 61
```

957sec

NFX - 面對面接觸

```
[SYSTEM INFO]
NUMBER OF THREADS : 8
MAXIMUM MEMORY USAGE : 405 MB
AVAILABLE MEMORY : 52117 MB
TOTAL CPU TIME : 3214.97 sec
WALL CLOCK TIME : 434.377 sec
GPU INFO : GeForce GTX 1050 Ti, 1.455 GHz, -6 CUDA CORE, COMPUTE CAPABILITY = 61
```

435sec

NFX - 點對面接觸

```
[SYSTEM INFO]
NUMBER OF THREADS : 8
MAXIMUM MEMORY USAGE : 363 MB
AVAILABLE MEMORY : 52116 MB
TOTAL CPU TIME : 1743.44 sec
WALL CLOCK TIME : 236.716 sec
GPU INFO : GeForce GTX 1050 Ti, 1.455 GHz, -6 CUDA CORE, COMPUTE CAPABILITY = 61
```

237sec

計算時間比對(相同PC)