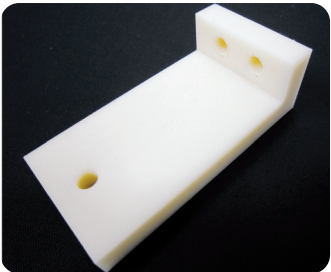
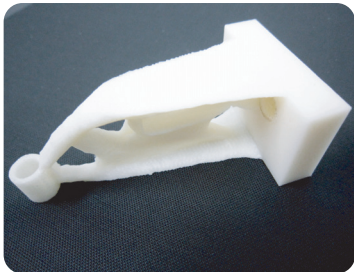
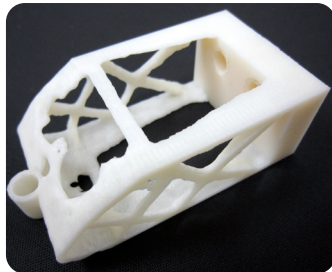
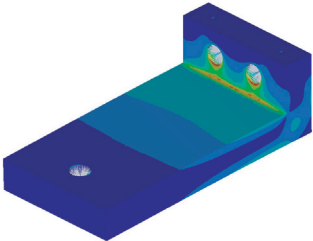
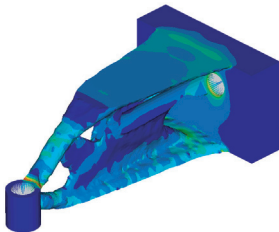
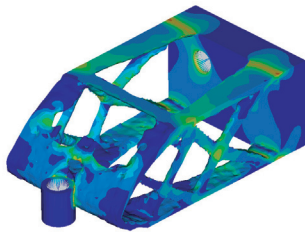




# L字ブラケットの最適化解析

10kgの荷重に耐える光造形素材の軽量化設計

|       | Case 1                                                                                                                                                                                                                                              | Case 2                                                                                                                                | Case 3                                                                                                                               |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 実物    |                                                                                                                                                                    |                                                     |                                                   |
| 応力分布  |  <div>45.85<br/>24.00<br/>21.00<br/>18.00<br/>15.00<br/>12.00<br/>9.00<br/>6.00<br/>3.00<br/>0.00</div> <p>壊れやすい部位<br/>は赤色になる</p> <p>応力ぎりぎりの赤色部がある</p> <p>強度 ★</p> |  <p>全体に青色系で応力に余裕あり</p> <p>強度 ★★★</p>                |  <p>Case2に比べ応力に余裕なし</p> <p>強度 ★★</p>              |
| 重量    | 37.2g<br>軽量化 ★                                                                                                                                                                                                                                      | 15.2g<br>軽量化 ★★★                                                                                                                      | 15.7g<br>軽量化 ★★★                                                                                                                     |
| 負荷点変位 | <p>解析値 1.75mm<br/>変位量 ★</p> <p>実験値 1.73mm</p>                                                                                                                    | <p>解析値 0.90mm<br/>変位量 ★★★</p> <p>実験値 0.95mm</p>  | <p>解析値 1.43mm<br/>変位量 ★★</p> <p>実験値 1.35mm</p>  |

