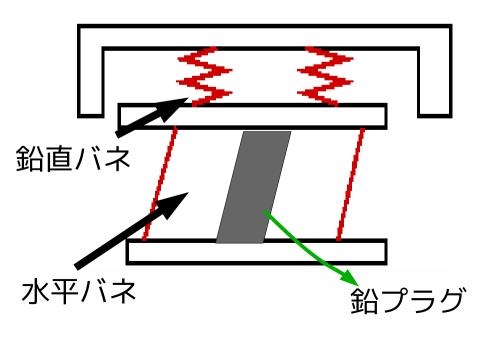
### 伸縮できる円筒折り紙構造の弾塑性挙動

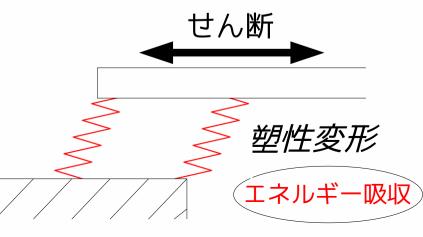
環境構造工学講座 07604 石崎博之

折り紙構造…折りたたみ性能、バネ性能

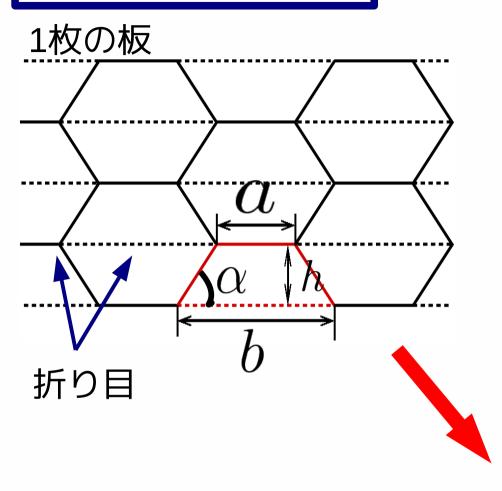
機能分離型支承として?

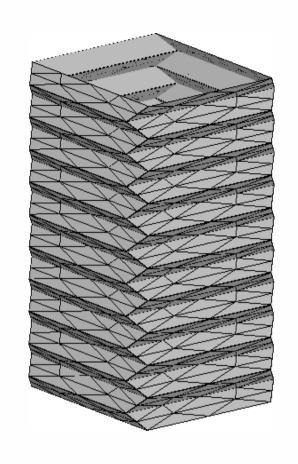






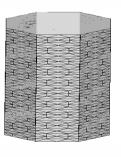
# 折り目パターン







初期高さ0 初期高さ0.5

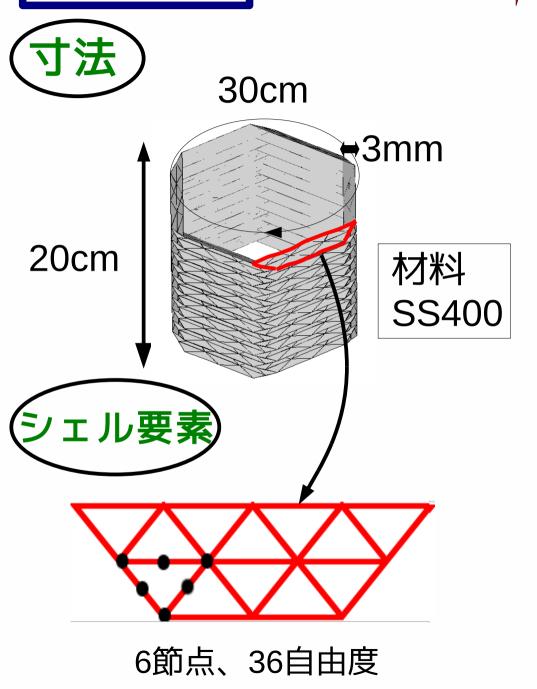


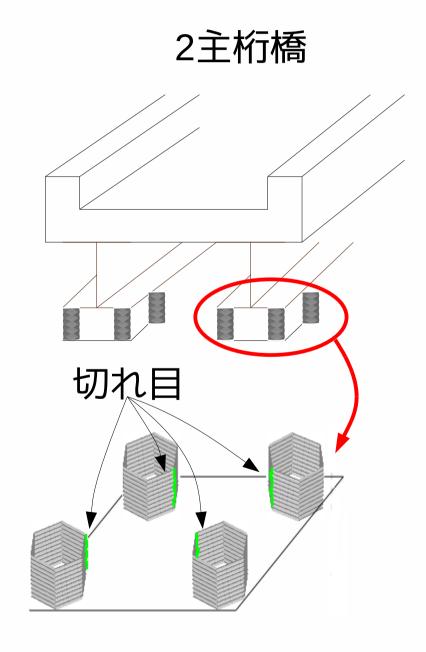
初期高さ1

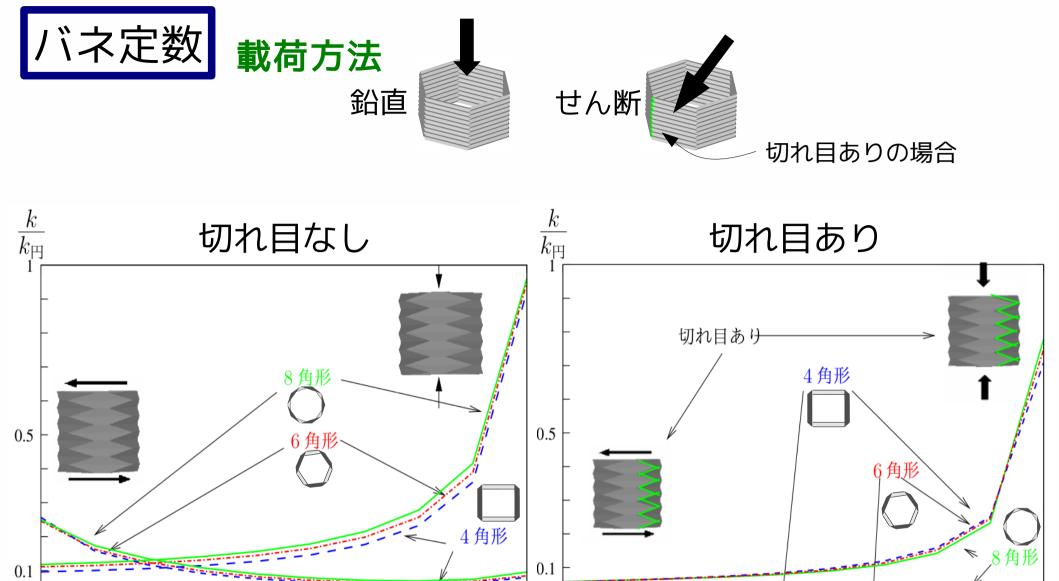


周方向パターン数

# 解析モデル FEM解析 Calculix







鉛直方向で2割、せん断方向で5割減少

0.1

0.4

初期高さ

0.7

0 0.1

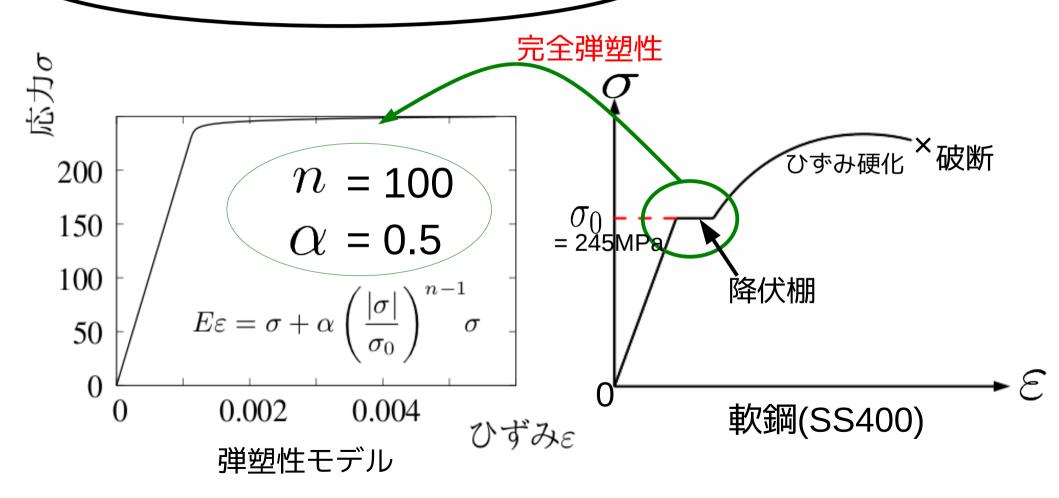
0.4

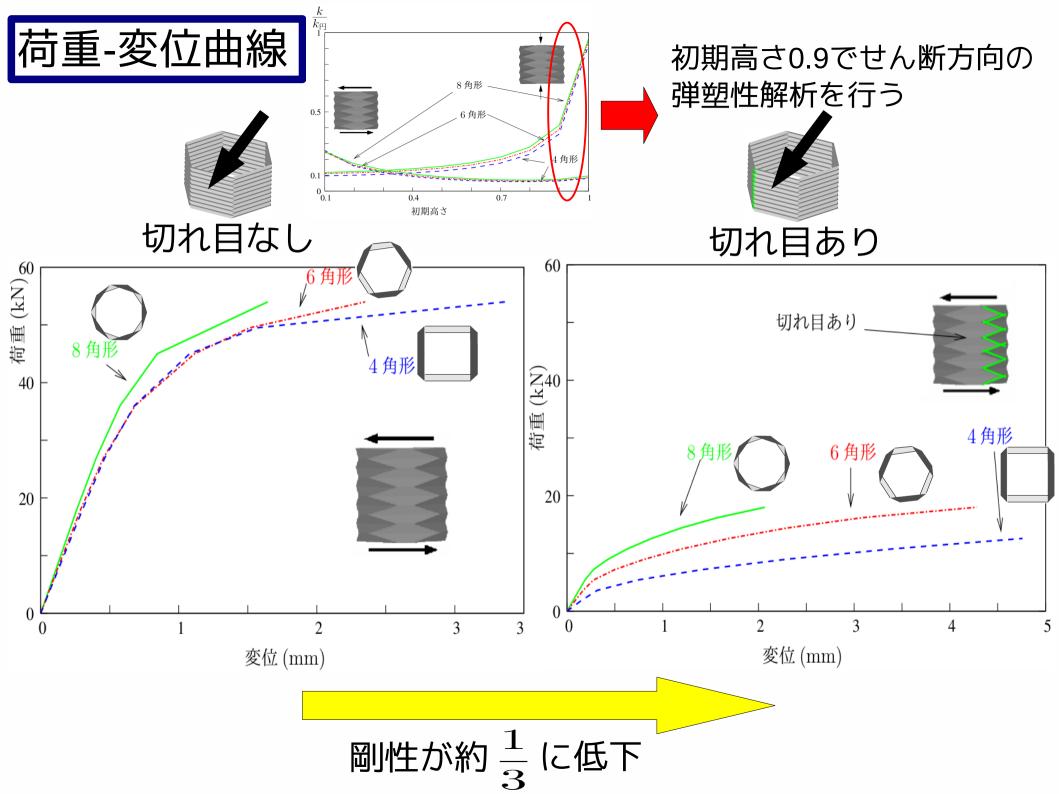
初期高さ

0.7

#### 弾塑性モデル

#### Ramberg-Osgood法で近似





# まとめ

