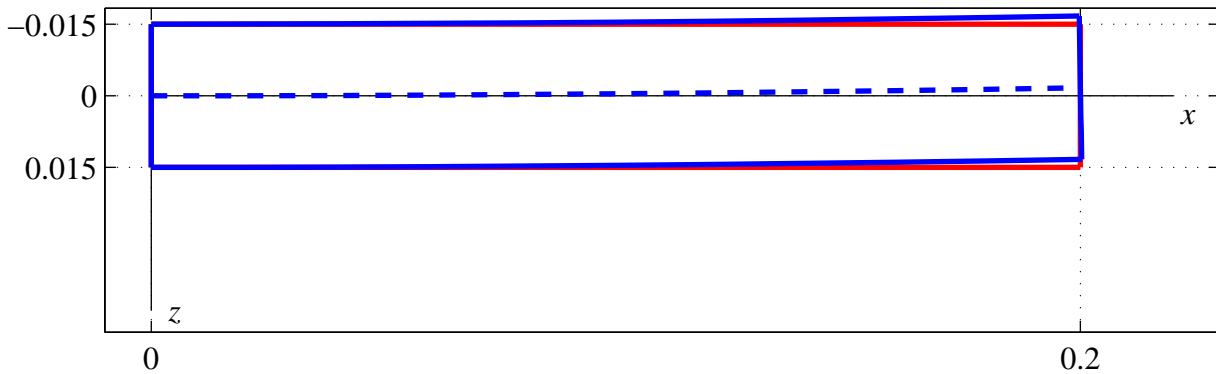


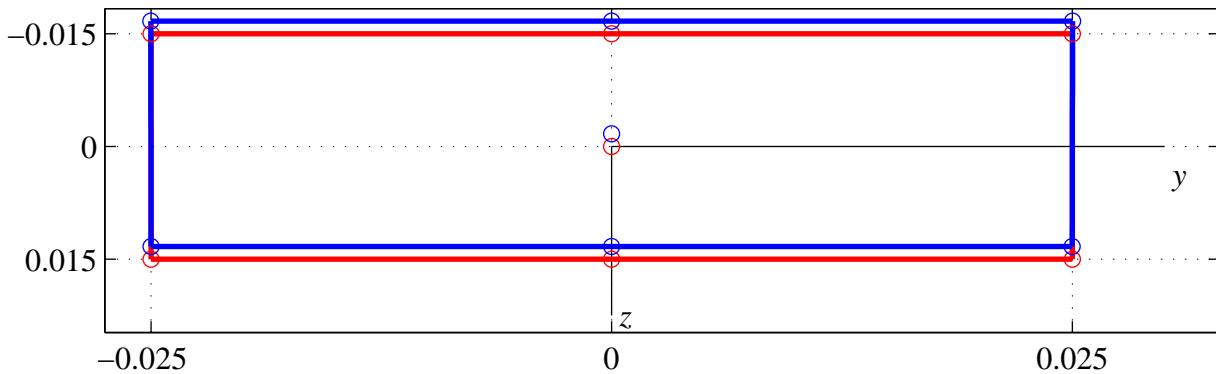
- Tala: pikkus  $l = 0.2$  m; laius  $2b = 0.05$  m; kõrgus  $2a = 0.03$  m
- Koormus otstes  $x = 0$  ja  $x = l$ :  $M = 2$  kNm
- Materjal: teras;  $E = 210$  GPa;  $\nu = 0.3$

NB! Maksimaalse vertikaalsiirde ja paksuse suhe on 0.06

Tala peatasandi  $x$ - $z$  punktide siirded ja deformeerunud kuju



Tala otsa  $x = l$  siirded ja deformeerunud kuju



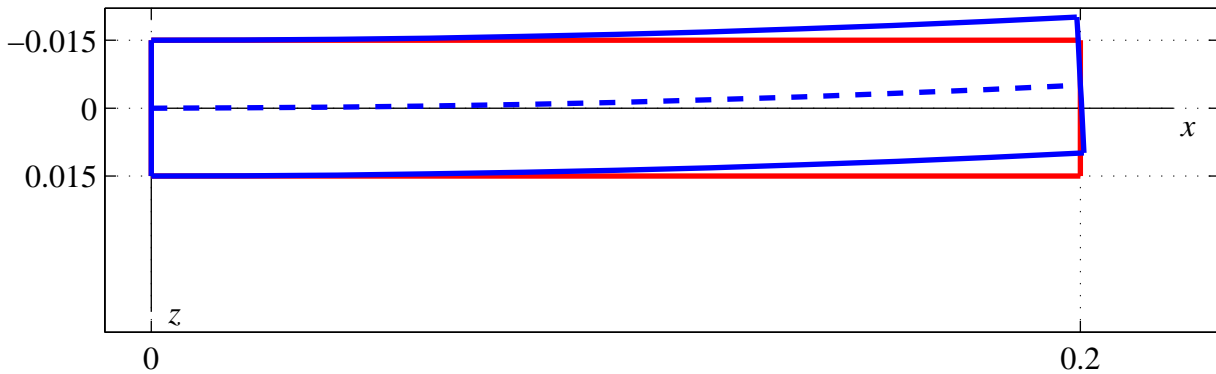
Punktide  $(y, z)$  siirded  $(u, v, w)$  lõikes  $x = l$

- $y = 0.000$ ;  $z = 0.000$ ;  $u = 0.000000$ ;  $v = -0.00000000$ ;  $w = -0.00169312$
- $y = -0.025$ ;  $z = 0.015$ ;  $u = 0.000254$ ;  $v = 0.00000952$ ;  $w = -0.00168804$
- $y = 0.000$ ;  $z = 0.015$ ;  $u = 0.000254$ ;  $v = -0.00000000$ ;  $w = -0.00169598$
- $y = 0.025$ ;  $z = 0.015$ ;  $u = 0.000254$ ;  $v = -0.00000952$ ;  $w = -0.00168804$
- $y = -0.025$ ;  $z = -0.015$ ;  $u = -0.000254$ ;  $v = -0.00000952$ ;  $w = -0.00168804$
- $y = 0.000$ ;  $z = -0.015$ ;  $u = -0.000254$ ;  $v = 0.00000000$ ;  $w = -0.00169598$
- $y = 0.025$ ;  $z = -0.015$ ;  $u = -0.000254$ ;  $v = 0.00000952$ ;  $w = -0.00168804$

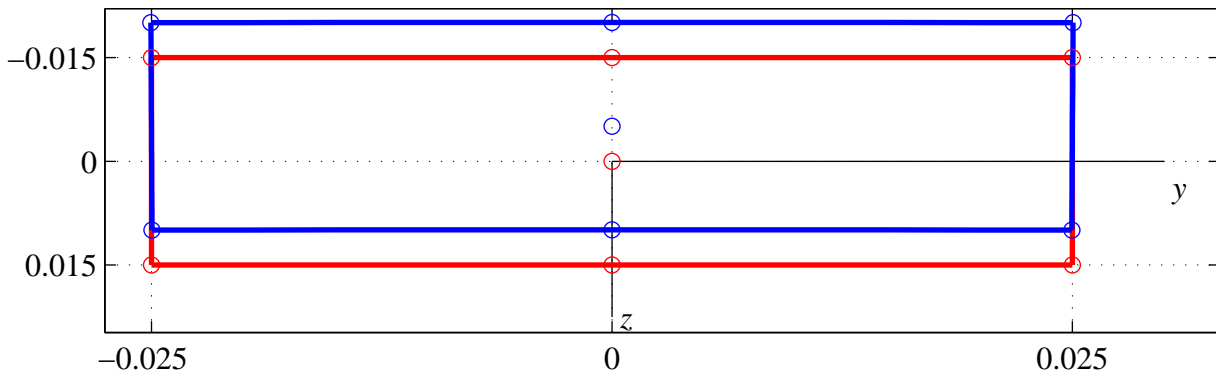
- Tala: pikkus  $l = 0.2$  m; laius  $2b = 0.05$  m; kõrgus  $2a = 0.03$  m
- Koormus otstes  $x = 0$  ja  $x = l$ :  $M = 2$  kNm
- Materjal: alumiinium;  $E = 70$  GPa;  $\nu = 0.35$

NB! Maksimaalse vertikaalsiirde ja paksuse suhe on 0.17

Tala peatasandi  $x$ - $z$  punktide siirded ja deformeerunud kuju



Tala otsa  $x = l$  siirded ja deformeerunud kuju



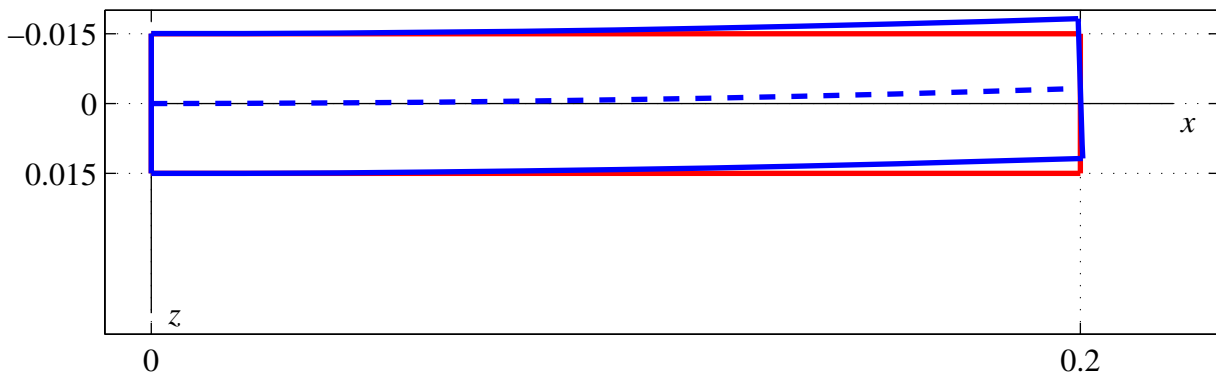
Punktide  $(y, z)$  siirded  $(u, v, w)$  lõikes  $x = l$

- $y = 0.000$ ;  $z = 0.000$ ;  $u = 0.000000$ ;  $v = -0.00000000$ ;  $w = -0.00507937$
- $y = -0.025$ ;  $z = 0.015$ ;  $u = 0.000762$ ;  $v = 0.00003333$ ;  $w = -0.00506159$
- $y = 0.000$ ;  $z = 0.015$ ;  $u = 0.000762$ ;  $v = -0.00000000$ ;  $w = -0.00508937$
- $y = 0.025$ ;  $z = 0.015$ ;  $u = 0.000762$ ;  $v = -0.00003333$ ;  $w = -0.00506159$
- $y = -0.025$ ;  $z = -0.015$ ;  $u = -0.000762$ ;  $v = -0.00003333$ ;  $w = -0.00506159$
- $y = 0.000$ ;  $z = -0.015$ ;  $u = -0.000762$ ;  $v = 0.00000000$ ;  $w = -0.00508937$
- $y = 0.025$ ;  $z = -0.015$ ;  $u = -0.000762$ ;  $v = 0.00003333$ ;  $w = -0.00506159$

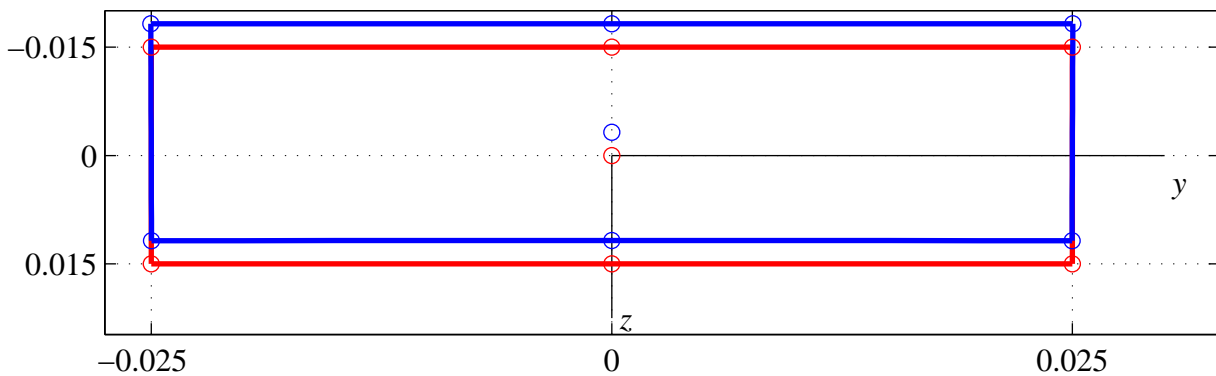
- Tala: pikkus  $l = 0.2$  m; laius  $2b = 0.05$  m; kõrgus  $2a = 0.03$  m
- Koormus otstes  $x = 0$  ja  $x = l$ :  $M = 2$  kNm
- Materjal: vask;  $E = 110$  GPa;  $\nu = 0.32$

NB! Maksimaalse vertikaalsiirde ja paksuse suhe on 0.11

Tala peatasandi  $x$ - $z$  punktide siirded ja deformeerunud kuju



Tala otsa  $x = l$  siirded ja deformeerunud kuju



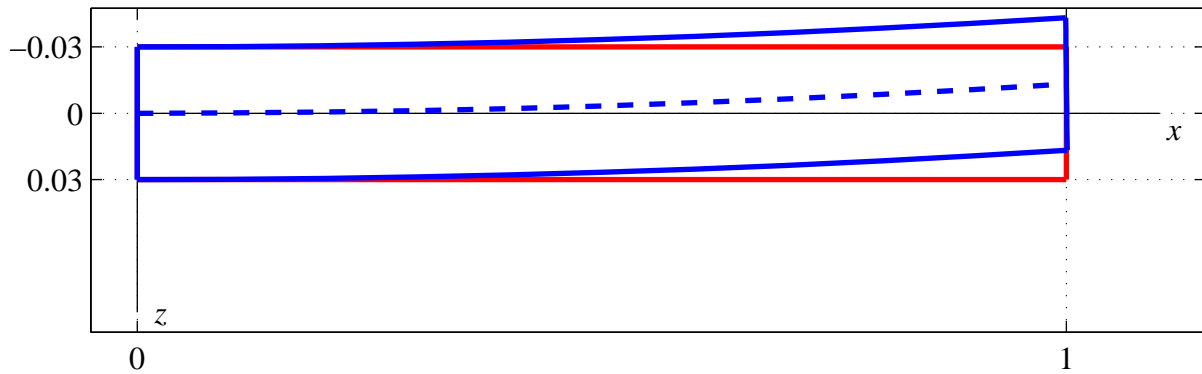
Punktide  $(y, z)$  siirded  $(u, v, w)$  lõikes  $x = l$

- $y = 0.000$ ;  $z = 0.000$ ;  $u = 0.000000$ ;  $v = -0.00000000$ ;  $w = -0.00323232$
- $y = -0.025$ ;  $z = 0.015$ ;  $u = 0.000485$ ;  $v = 0.00001939$ ;  $w = -0.00322198$
- $y = 0.000$ ;  $z = 0.015$ ;  $u = 0.000485$ ;  $v = -0.00000000$ ;  $w = -0.00323814$
- $y = 0.025$ ;  $z = 0.015$ ;  $u = 0.000485$ ;  $v = -0.00001939$ ;  $w = -0.00322198$
- $y = -0.025$ ;  $z = -0.015$ ;  $u = -0.000485$ ;  $v = -0.00001939$ ;  $w = -0.00322198$
- $y = 0.000$ ;  $z = -0.015$ ;  $u = -0.000485$ ;  $v = 0.00000000$ ;  $w = -0.00323814$
- $y = 0.025$ ;  $z = -0.015$ ;  $u = -0.000485$ ;  $v = 0.00001939$ ;  $w = -0.00322198$

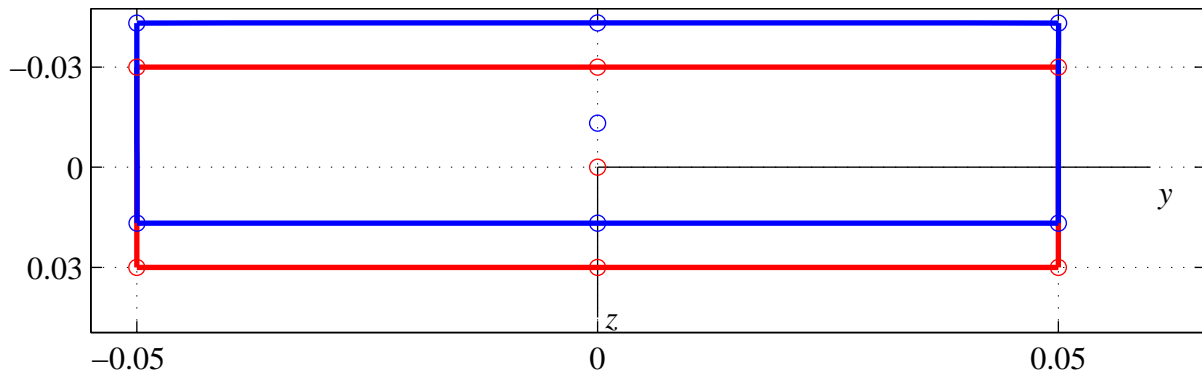
- Tala: pikkus  $l = 1$  m; laius  $2b = 0.1$  m; kõrgus  $2a = 0.06$  m
- Koormus otstes  $x = 0$  ja  $x = l$ :  $M = 10$  kNm
- Materjal: teras;  $E = 210$  GPa;  $\nu = 0.3$

NB! Maksimaalse vertikaalsiirde ja paksuse suhe on 0.22

Tala peatasandi  $x$ - $z$  punktide siirded ja deformeerunud kuju



Tala otsa  $x = l$  siirded ja deformeerunud kuju



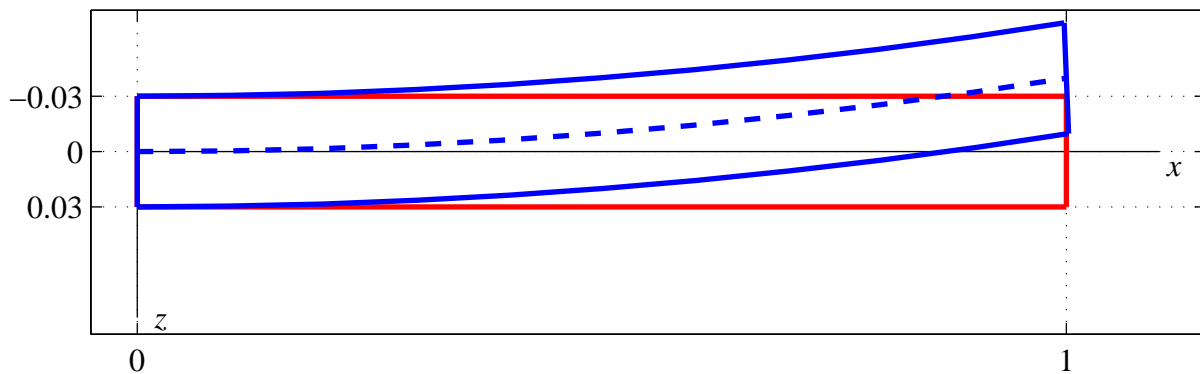
Punktide  $(y, z)$  siirded  $(u, v, w)$  lõikes  $x = l$

- $y = 0.000$ ;  $z = 0.000$ ;  $u = 0.000000$ ;  $v = -0.00000000$ ;  $w = -0.01322751$
- $y = -0.050$ ;  $z = 0.030$ ;  $u = 0.000794$ ;  $v = 0.00001190$ ;  $w = -0.01322116$
- $y = 0.000$ ;  $z = 0.030$ ;  $u = 0.000794$ ;  $v = -0.00000000$ ;  $w = -0.01323108$
- $y = 0.050$ ;  $z = 0.030$ ;  $u = 0.000794$ ;  $v = -0.00001190$ ;  $w = -0.01322116$
- $y = -0.050$ ;  $z = -0.030$ ;  $u = -0.000794$ ;  $v = -0.00001190$ ;  $w = -0.01322116$
- $y = 0.000$ ;  $z = -0.030$ ;  $u = -0.000794$ ;  $v = 0.00000000$ ;  $w = -0.01323108$
- $y = 0.050$ ;  $z = -0.030$ ;  $u = -0.000794$ ;  $v = 0.00001190$ ;  $w = -0.01322116$

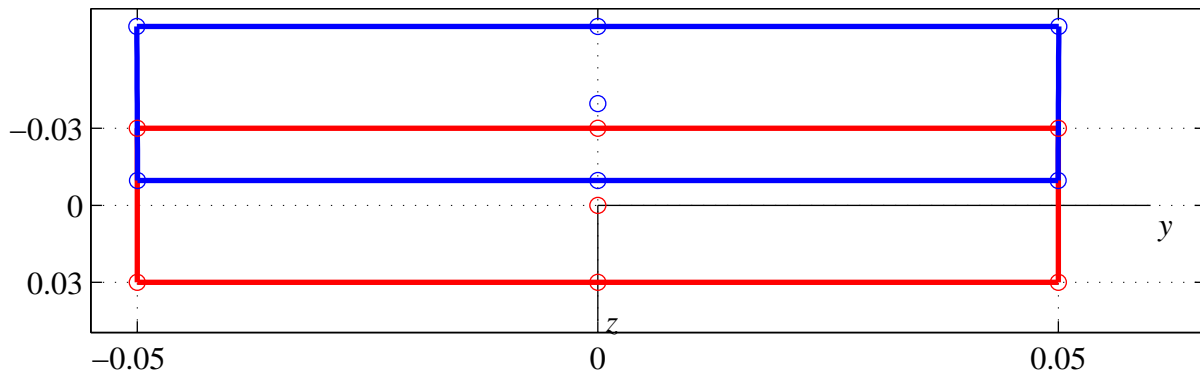
- Tala: pikkus  $l = 1$  m; laius  $2b = 0.1$  m; kõrgus  $2a = 0.06$  m
- Koormus otstes  $x = 0$  ja  $x = l$ :  $M = 10$  kNm
- Materjal: alumiinium;  $E = 70$  GPa;  $\nu = 0.35$

NB! Maksimaalse vertikaalsiirde ja paksuse suhe on 0.66

Tala peatasandi  $x$ - $z$  punktide siirded ja deformeerunud kuju



Tala otsa  $x = l$  siirded ja deformeerunud kuju



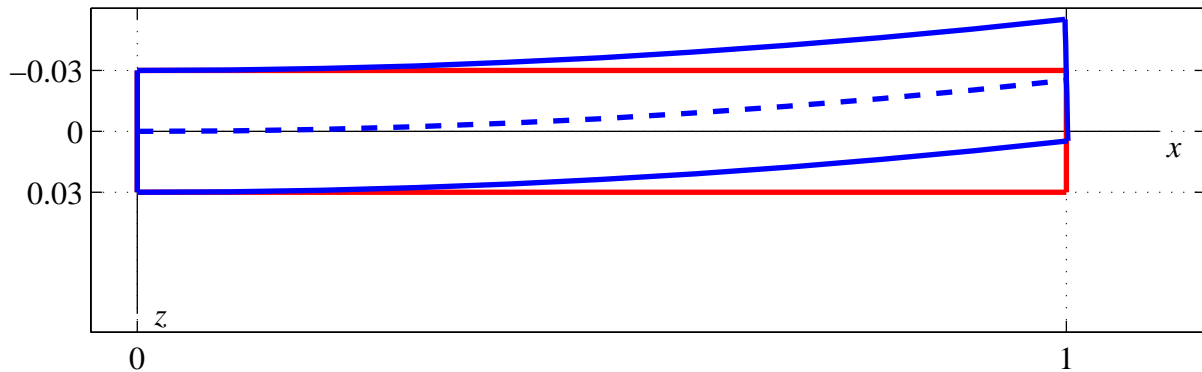
Punktide  $(y, z)$  siirded  $(u, v, w)$  lõikes  $x = l$

- $y = 0.000$ ;  $z = 0.000$ ;  $u = 0.000000$ ;  $v = -0.00000000$ ;  $w = -0.03968254$
- $y = -0.050$ ;  $z = 0.030$ ;  $u = 0.002381$ ;  $v = 0.00004167$ ;  $w = -0.03966032$
- $y = 0.000$ ;  $z = 0.030$ ;  $u = 0.002381$ ;  $v = -0.00000000$ ;  $w = -0.03969504$
- $y = 0.050$ ;  $z = 0.030$ ;  $u = 0.002381$ ;  $v = -0.00004167$ ;  $w = -0.03966032$
- $y = -0.050$ ;  $z = -0.030$ ;  $u = -0.002381$ ;  $v = -0.00004167$ ;  $w = -0.03966032$
- $y = 0.000$ ;  $z = -0.030$ ;  $u = -0.002381$ ;  $v = 0.00000000$ ;  $w = -0.03969504$
- $y = 0.050$ ;  $z = -0.030$ ;  $u = -0.002381$ ;  $v = 0.00004167$ ;  $w = -0.03966032$

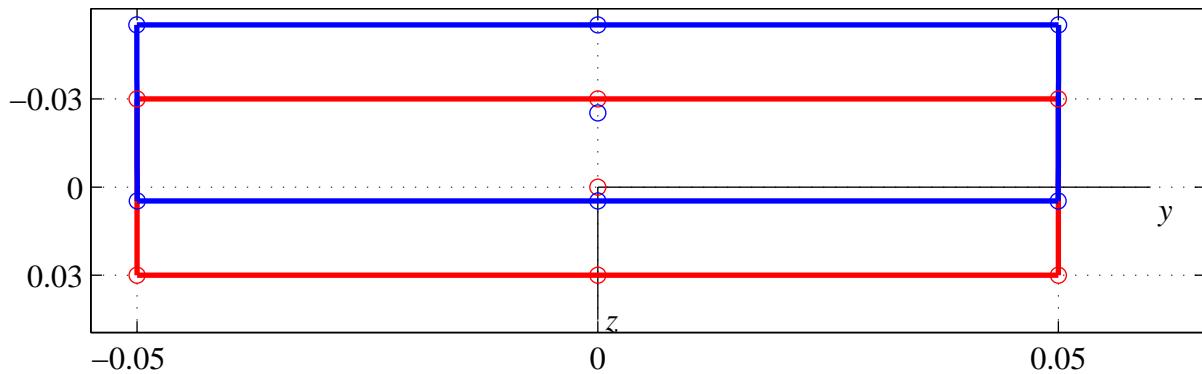
- Tala: pikkus  $l = 1$  m; laius  $2b = 0.1$  m; kõrgus  $2a = 0.06$  m
- Koormus otstes  $x = 0$  ja  $x = l$ :  $M = 10$  kNm
- Materjal: vask;  $E = 110$  GPa;  $\nu = 0.32$

NB! Maksimaalse vertikaalsiirde ja paksuse suhe on 0.42

Tala peatasandi  $x$ - $z$  punktide siirded ja deformeerunud kuju



Tala otsa  $x = l$  siirded ja deformeerunud kuju



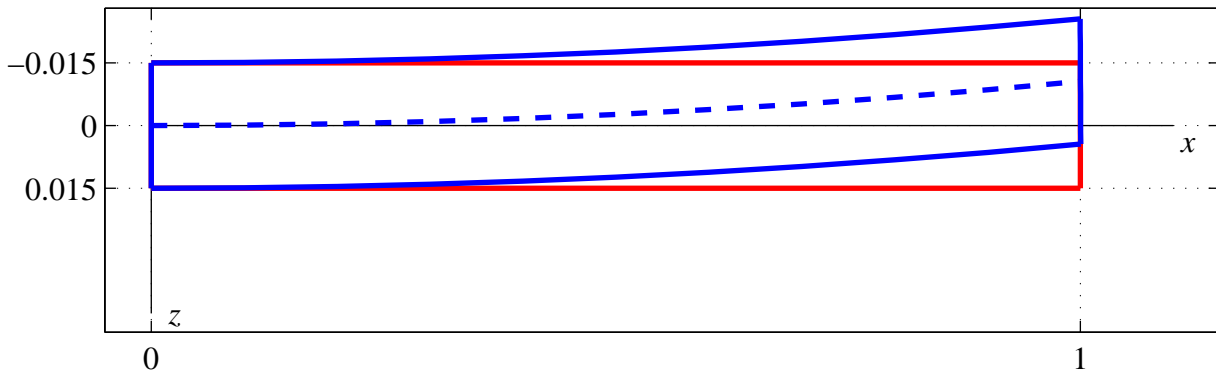
Punktide  $(y, z)$  siirded  $(u, v, w)$  lõikes  $x = l$

- $y = 0.000$ ;  $z = 0.000$ ;  $u = 0.000000$ ;  $v = -0.00000000$ ;  $w = -0.02525253$
- $y = -0.050$ ;  $z = 0.030$ ;  $u = 0.001515$ ;  $v = 0.00002424$ ;  $w = -0.02523960$
- $y = 0.000$ ;  $z = 0.030$ ;  $u = 0.001515$ ;  $v = -0.00000000$ ;  $w = -0.02525980$
- $y = 0.050$ ;  $z = 0.030$ ;  $u = 0.001515$ ;  $v = -0.00002424$ ;  $w = -0.02523960$
- $y = -0.050$ ;  $z = -0.030$ ;  $u = -0.001515$ ;  $v = -0.00002424$ ;  $w = -0.02523960$
- $y = 0.000$ ;  $z = -0.030$ ;  $u = -0.001515$ ;  $v = 0.00000000$ ;  $w = -0.02525980$
- $y = 0.050$ ;  $z = -0.030$ ;  $u = -0.001515$ ;  $v = 0.00002424$ ;  $w = -0.02523960$

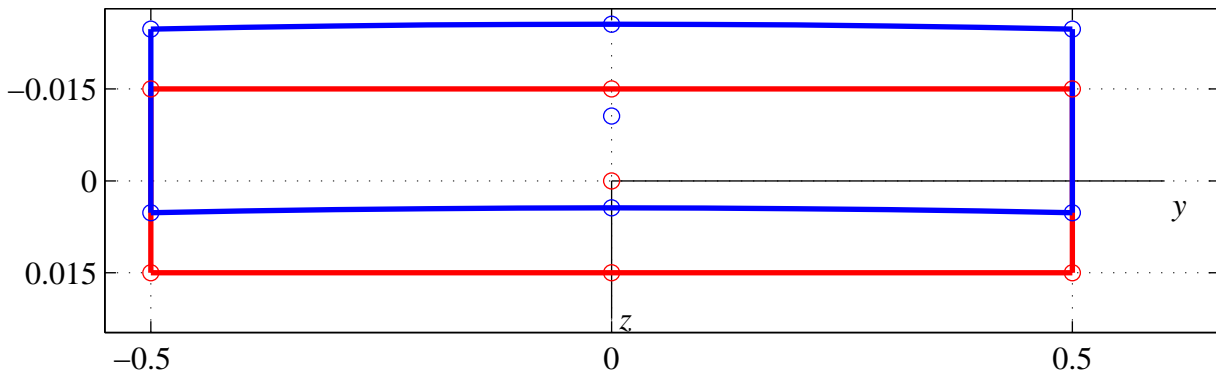
- *Plaat: pikkus  $l = 1$  m; laius  $2b = 1$  m; kõrgus  $2a = 0.03$  m*
- *Koormus otstes  $x = 0$  ja  $x = l$ :  $M = 10$  kNm*
- *Materjal: teras;  $E = 210$  GPa;  $\nu = 0.3$*

*NB! Maksimaalse vertikaalsiirde ja paksuse suhe on 0.35*

*Plaadi peatasandi  $x$ - $z$  punktide siirded ja deformeerunud kuju*



*Plaadi serva  $x = l$  siirded ja deformeerunud kuju*



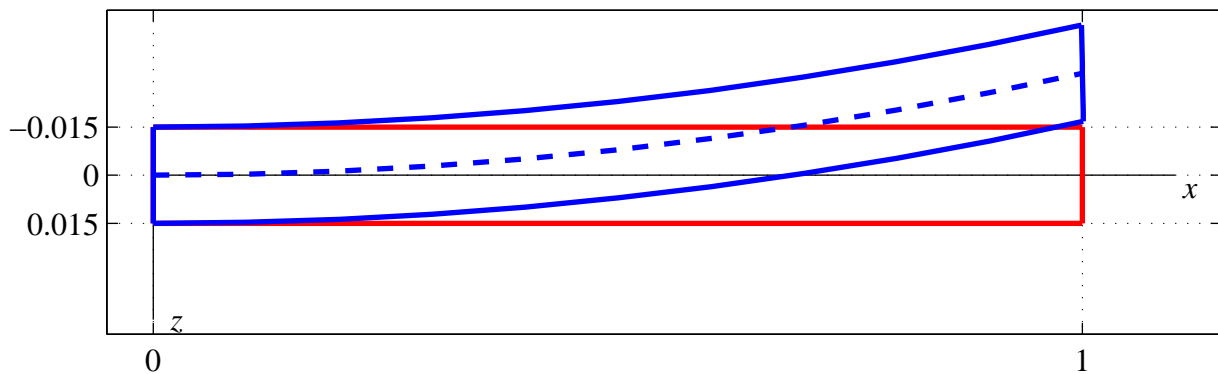
*Punktide  $(y, z)$  siirded  $(u, v, w)$  lõikes  $x = l$*

- $y = 0.000; z = 0.000; u = 0.000000; v = -0.00000000; w = -0.01058201$
- $y = -0.500; z = 0.015; u = 0.000317; v = 0.00004762; w = -0.00978907$
- $y = 0.000; z = 0.015; u = 0.000317; v = -0.00000000; w = -0.01058272$
- $y = 0.500; z = 0.015; u = 0.000317; v = -0.00004762; w = -0.00978907$
- $y = -0.500; z = -0.015; u = -0.000317; v = -0.00004762; w = -0.00978907$
- $y = 0.000; z = -0.015; u = -0.000317; v = 0.00000000; w = -0.01058272$
- $y = 0.500; z = -0.015; u = -0.000317; v = 0.00004762; w = -0.00978907$

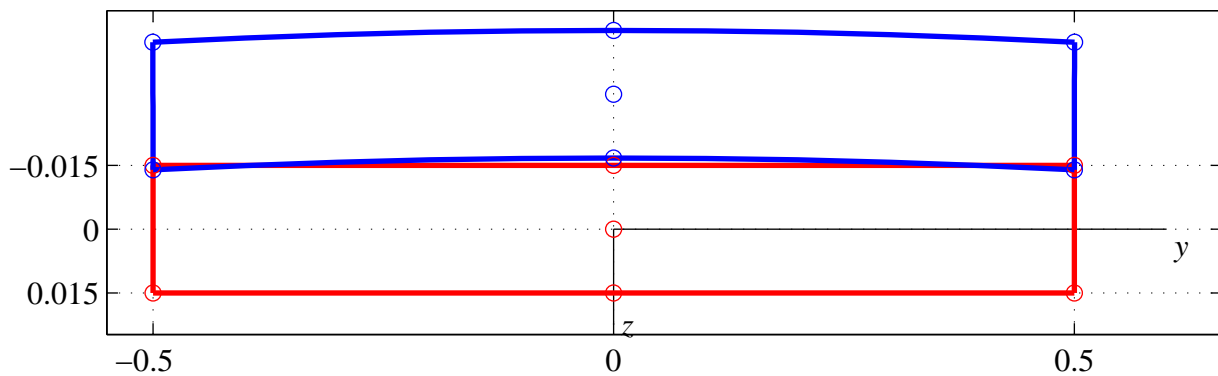
- *Plaat: pikkus  $l = 1$  m; laius  $2b = 1$  m; kõrgus  $2a = 0.03$  m*
- *Koormus otstes  $x = 0$  ja  $x = l$ :  $M = 10$  kNm*
- *Materjal: alumiinium;  $E = 70$  GPa;  $\nu = 0.35$*

*NB! Maksimaalse vertikaalsiirde ja paksuse suhe on 1.06*

*Plaadi peatasandi  $x$ - $z$  punktide siirded ja deformeerunud kuju*



*Plaadi serva  $x = l$  siirded ja deformeerunud kuju*



*Punktide  $(y, z)$  siirded  $(u, v, w)$  lõikes  $x = l$*

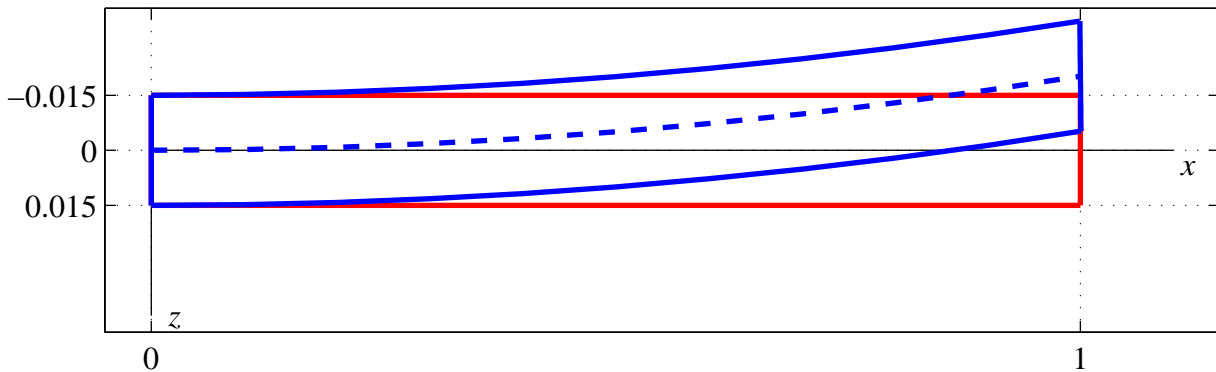
- $y = 0.000; z = 0.000; u = 0.000000; v = -0.00000000; w = -0.03174603$
- $y = -0.500; z = 0.015; u = 0.000952; v = 0.00016667; w = -0.02897075$
- $y = 0.000; z = 0.015; u = 0.000952; v = -0.00000000; w = -0.03174853$
- $y = 0.500; z = 0.015; u = 0.000952; v = -0.00016667; w = -0.02897075$
- $y = -0.500; z = -0.015; u = -0.000952; v = -0.00016667; w = -0.02897075$
- $y = 0.000; z = -0.015; u = -0.000952; v = 0.00000000; w = -0.03174853$
- $y = 0.500; z = -0.015; u = -0.000952; v = 0.00016667; w = -0.02897075$



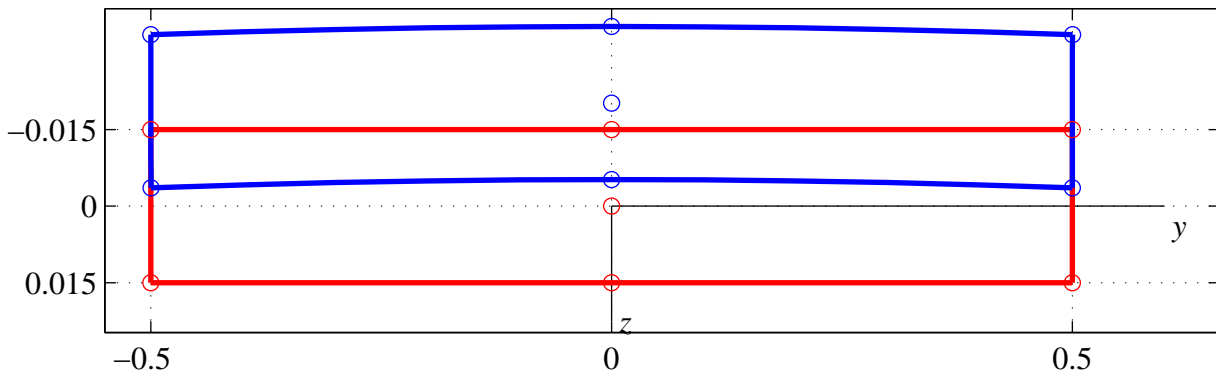
- *Plaat: pikkus  $l = 1$  m; laius  $2b = 1$  m; kõrgus  $2a = 0.03$  m*
- *Koormus otstes  $x = 0$  ja  $x = l$ :  $M = 10$  kNm*
- *Materjal: vask;  $E = 110$  GPa;  $\nu = 0.32$*

*NB! Maksimaalse vertikaalsiirde ja paksuse suhe on 0.67*

*Plaadi peetasandi  $x$ - $z$  punktide siirded ja deformeerunud kuju*



*Plaadi serva  $x = l$  siirded ja deformeerunud kuju*



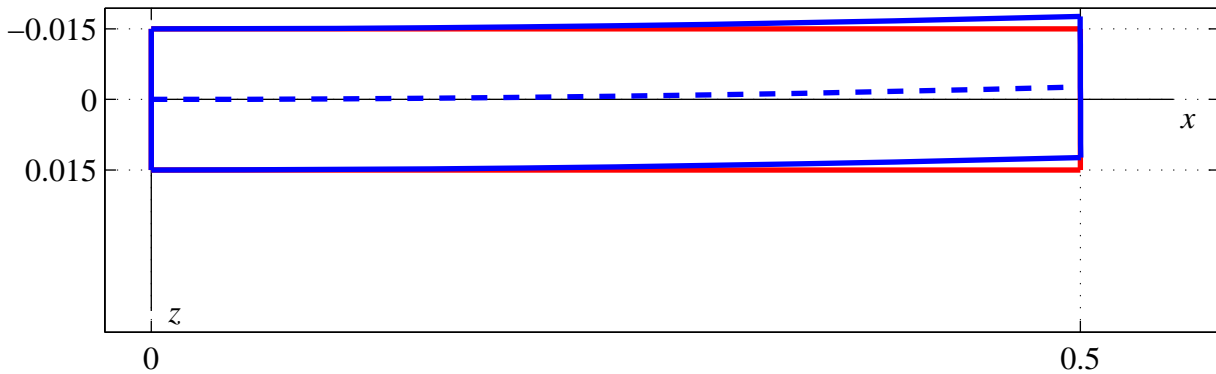
*Punktide  $(y, z)$  siirded  $(u, v, w)$  lõikes  $x = l$*

- $y = 0.000; z = 0.000; u = 0.000000; v = -0.00000000; w = -0.02020202$
- $y = -0.500; z = 0.015; u = 0.000606; v = 0.00009697; w = -0.01858731$
- $y = 0.000; z = 0.015; u = 0.000606; v = -0.00000000; w = -0.02020347$
- $y = 0.500; z = 0.015; u = 0.000606; v = -0.00009697; w = -0.01858731$
- $y = -0.500; z = -0.015; u = -0.000606; v = -0.00009697; w = -0.01858731$
- $y = 0.000; z = -0.015; u = -0.000606; v = 0.00000000; w = -0.02020347$
- $y = 0.500; z = -0.015; u = -0.000606; v = 0.00009697; w = -0.01858731$

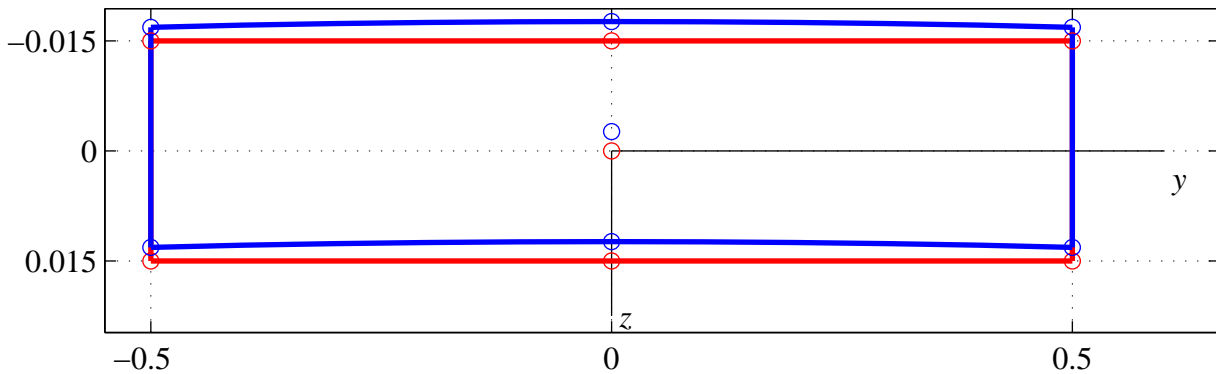
- *Plaat: pikkus  $l = 0.5$  m; laius  $2b = 1$  m; kõrgus  $2a = 0.03$  m*
- *Koormus otstes  $x = 0$  ja  $x = l$ :  $M = 10$  kNm*
- *Materjal: teras;  $E = 210$  GPa;  $\nu = 0.3$*

*NB! Maksimaalse vertikaalsiirde ja paksuse suhe on 0.09*

*Plaadi peatasandi  $x$ - $z$  punktide siirded ja deformeerunud kuju*



*Plaadi serva  $x = l$  siirded ja deformeerunud kuju*



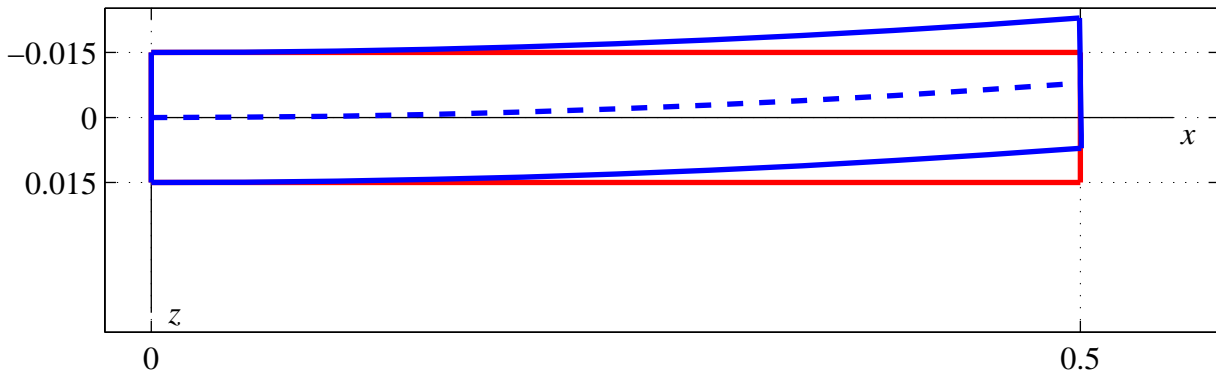
*Punktide  $(y, z)$  siirded  $(u, v, w)$  lõikes  $x = l$*

- $y = 0.000; z = 0.000; u = 0.000000; v = -0.00000000; w = -0.00264550$
- $y = -0.500; z = 0.015; u = 0.000159; v = 0.00004762; w = -0.00185257$
- $y = 0.000; z = 0.015; u = 0.000159; v = -0.00000000; w = -0.00264622$
- $y = 0.500; z = 0.015; u = 0.000159; v = -0.00004762; w = -0.00185257$
- $y = -0.500; z = -0.015; u = -0.000159; v = -0.00004762; w = -0.00185257$
- $y = 0.000; z = -0.015; u = -0.000159; v = 0.00000000; w = -0.00264622$
- $y = 0.500; z = -0.015; u = -0.000159; v = 0.00004762; w = -0.00185257$

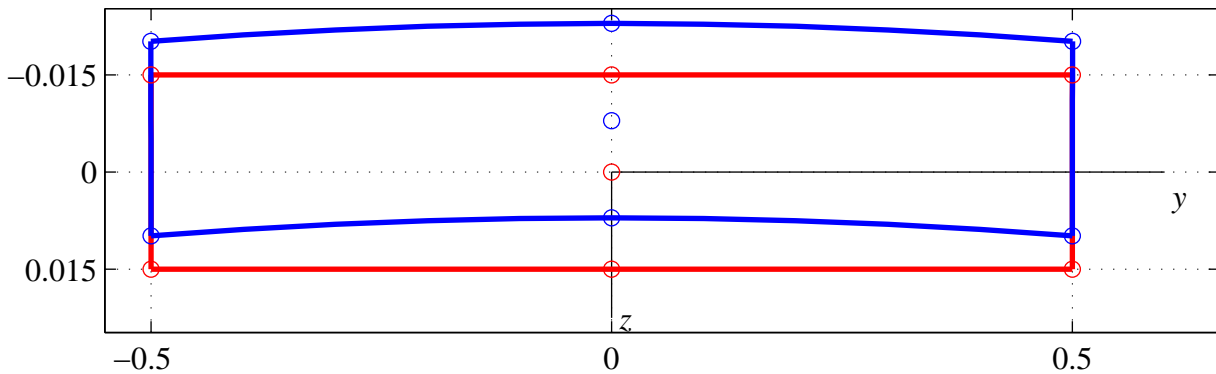
- *Plaat: pikkus  $l = 0.5$  m; laius  $2b = 1$  m; kõrgus  $2a = 0.03$  m*
- *Koormus otstes  $x = 0$  ja  $x = l$ :  $M = 10$  kNm*
- *Materjal: alumiinium;  $E = 70$  GPa;  $\nu = 0.35$*

*NB! Maksimaalse vertikaalsiirde ja paksuse suhe on 0.26*

*Plaadi peatasandi  $x$ - $z$  punktide siirded ja deformeerunud kuju*



*Plaadi serva  $x = l$  siirded ja deformeerunud kuju*



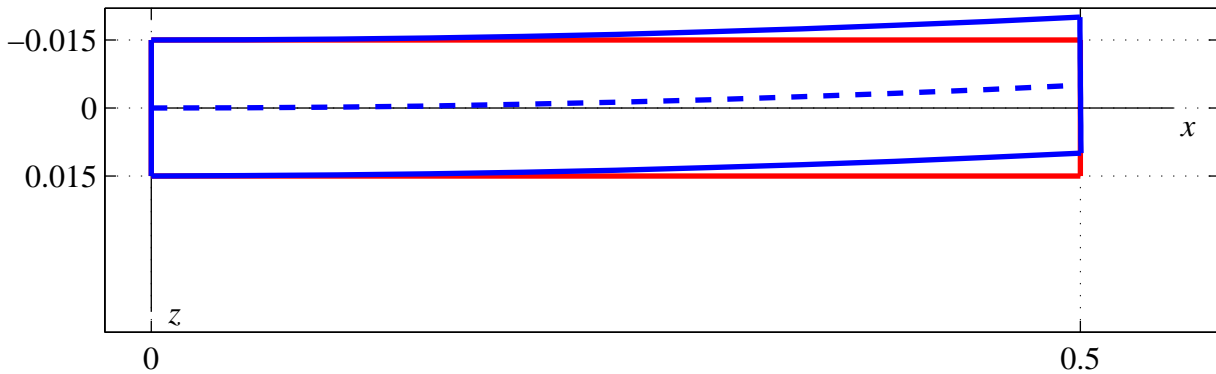
*Punktide  $(y, z)$  siirded  $(u, v, w)$  lõikes  $x = l$*

- $y = 0.000; z = 0.000; u = 0.000000; v = -0.00000000; w = -0.00793651$
- $y = -0.500; z = 0.015; u = 0.000476; v = 0.00016667; w = -0.00516123$
- $y = 0.000; z = 0.015; u = 0.000476; v = -0.00000000; w = -0.00793901$
- $y = 0.500; z = 0.015; u = 0.000476; v = -0.00016667; w = -0.00516123$
- $y = -0.500; z = -0.015; u = -0.000476; v = -0.00016667; w = -0.00516123$
- $y = 0.000; z = -0.015; u = -0.000476; v = 0.00000000; w = -0.00793901$
- $y = 0.500; z = -0.015; u = -0.000476; v = 0.00016667; w = -0.00516123$

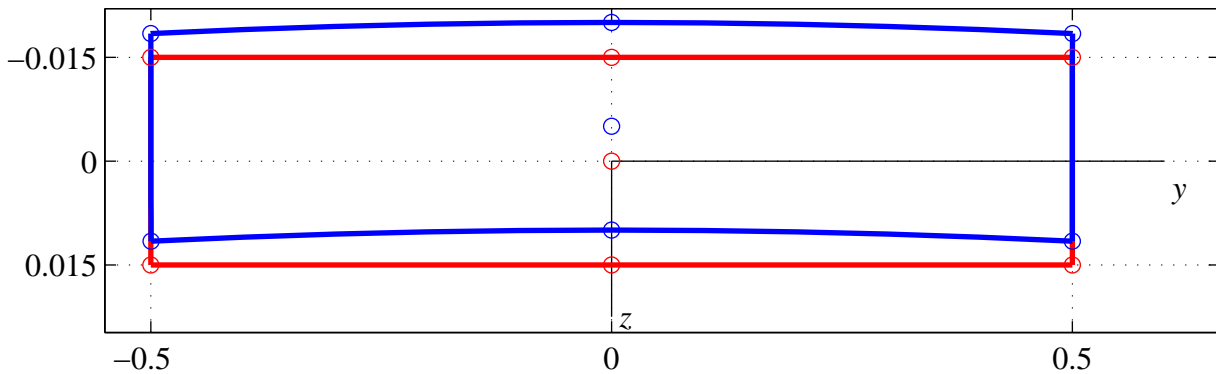
- *Plaat: pikkus  $l = 0.5$  m; laius  $2b = 1$  m; kõrgus  $2a = 0.03$  m*
- *Koormus otstes  $x = 0$  ja  $x = l$ :  $M = 10$  kNm*
- *Materjal: vask;  $E = 110$  GPa;  $\nu = 0.32$*

*NB! Maksimaalse vertikaalsiirde ja paksuse suhe on 0.17*

*Plaadi peatasandi  $x$ - $z$  punktide siirded ja deformeerunud kuju*



*Plaadi serva  $x = l$  siirded ja deformeerunud kuju*



*Punktide  $(y, z)$  siirded  $(u, v, w)$  lõikes  $x = l$*

- $y = 0.000; z = 0.000; u = 0.000000; v = -0.00000000; w = -0.00505051$
- $y = -0.500; z = 0.015; u = 0.000303; v = 0.00009697; w = -0.00343580$
- $y = 0.000; z = 0.015; u = 0.000303; v = -0.00000000; w = -0.00505196$
- $y = 0.500; z = 0.015; u = 0.000303; v = -0.00009697; w = -0.00343580$
- $y = -0.500; z = -0.015; u = -0.000303; v = -0.00009697; w = -0.00343580$
- $y = 0.000; z = -0.015; u = -0.000303; v = 0.00000000; w = -0.00505196$
- $y = 0.500; z = -0.015; u = -0.000303; v = 0.00009697; w = -0.00343580$