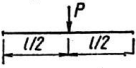
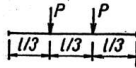
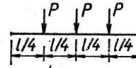
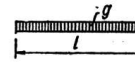
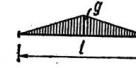
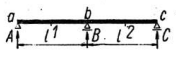
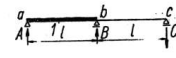
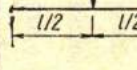
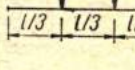
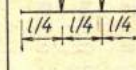
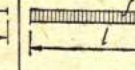
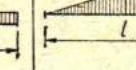
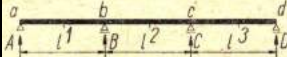
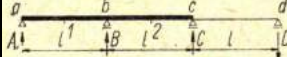
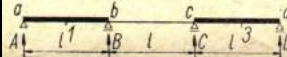


# Výpočet vnitřních sil spojitého nosníku - stejná rozpětí polí

Tabulka C.69. Spojitý nosník o dvou polích stejného rozpětí :

| Zatížení                                                                          | Statické veličiny          |  |  |  |  |  |
|-----------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  | $M_b$                      | $-0,1875 Pl$                                                                      | $-0,3333 Pl$                                                                      | $-0,4687 Pl$                                                                       | $-0,1250 gl^2$                                                                      | $-0,0781 gl^2$                                                                      |
|                                                                                   | $\max M_1$                 | $+0,1562 Pl$                                                                      | $+0,2222 Pl$                                                                      | $+0,2656 Pl$                                                                       | $+0,0703 gl^2$                                                                      | —                                                                                   |
|                                                                                   | $\max M_2$                 | $+0,1562 Pl$                                                                      | $+0,2222 Pl$                                                                      | $+0,2656 Pl$                                                                       | $+0,0703 gl^2$                                                                      | —                                                                                   |
|                                                                                   | $C = Q_{ab} = -Q_{cb} = A$ | $+0,3125 P$                                                                       | $+0,6666 P$                                                                       | $+1,0312 P$                                                                        | $+0,3750 gl$                                                                        | $+0,1718 gl$                                                                        |
|                                                                                   | $B$                        | $+1,3750 P$                                                                       | $+2,6667 P$                                                                       | $+3,9376 P$                                                                        | $+1,2500 gl$                                                                        | $+0,6564 gl$                                                                        |
|                                                                                   | $Q_{bc} = -Q_{ba}$         | $+0,6895 P$                                                                       | $+1,3333 P$                                                                       | $+1,9688 P$                                                                        | $+0,6250 gl$                                                                        | $+0,3282 gl$                                                                        |
|  | $M_b$                      | $-0,0937 Pl$                                                                      | $-0,1667 Pl$                                                                      | $-0,2344 Pl$                                                                       | $-0,0625 gl^2$                                                                      | $-0,0391 gl^2$                                                                      |
|                                                                                   | $\max M_1$                 | $+0,2031 Pl$                                                                      | $+0,2778 Pl$                                                                      | $+0,3828 Pl$                                                                       | $+0,0957 gl^2$                                                                      | —                                                                                   |
|                                                                                   | $Q_{ab} = A$               | $+0,4062 P$                                                                       | $+0,8333 P$                                                                       | $+1,2656 P$                                                                        | $+0,4375 gl$                                                                        | $+0,2109 gl$                                                                        |
|                                                                                   | $B$                        | $+0,6875 P$                                                                       | $+1,3334 P$                                                                       | $+1,9688 P$                                                                        | $+0,6250 gl$                                                                        | $+0,3282 gl$                                                                        |
|                                                                                   | $C = -Q_{cb}$              | $-0,0937 P$                                                                       | $-0,1667 P$                                                                       | $-0,2344 P$                                                                        | $-0,0625 gl$                                                                        | $-0,0391 gl$                                                                        |
|                                                                                   | $Q_{ba}$                   | $-0,5937 P$                                                                       | $-1,1667 P$                                                                       | $-1,7344 P$                                                                        | $-0,5625 gl$                                                                        | $-0,2891 gl$                                                                        |
|                                                                                   | $Q_{bc}$                   | $+0,0937 P$                                                                       | $+0,1667 P$                                                                       | $+0,2344 P$                                                                        | $+0,0625 gl$                                                                        | $+0,0391 gl$                                                                        |

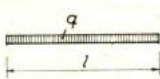
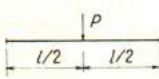
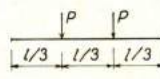
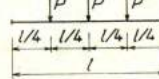
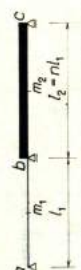
Tabulka C.70. Spojitý nosník o třech polích stejného rozpětí :

| Zatížení                                                                           | Statická veličina          |  |  |  |  |  |
|------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  | $M_b = M_c$                | $-0,1500 Pl$                                                                        | $-0,2667 Pl$                                                                        | $-0,3750 Pl$                                                                         | $-0,1000 gl^2$                                                                        | $-0,0625 gl^2$                                                                        |
|                                                                                    | $\max M_1 = \max M_3$      | $+0,1750 Pl$                                                                        | $+0,2444 Pl$                                                                        | $+0,3125 Pl$                                                                         | $+0,0800 gl^2$                                                                        | —                                                                                     |
|                                                                                    | $\max M_2$                 | $+0,1000 Pl$                                                                        | $+0,0666 Pl$                                                                        | $+0,1250 Pl$                                                                         | $+0,0250 gl^2$                                                                        | —                                                                                     |
|                                                                                    | $A = D = Q_{ab} = -Q_{dc}$ | $+0,3500 P$                                                                         | $+0,7333 P$                                                                         | $+1,1250 P$                                                                          | $+0,4000 gl$                                                                          | $+0,1875 gl$                                                                          |
|                                                                                    | $B = C$                    | $+1,1500 P$                                                                         | $+2,2667 P$                                                                         | $+3,3750 P$                                                                          | $+1,1000 gl$                                                                          | $+0,5625 gl$                                                                          |
|                                                                                    | $-Q_{ba} = +Q_{cd}$        | $+0,6500 P$                                                                         | $+1,2667 P$                                                                         | $+1,8750 P$                                                                          | $+0,6000 gl$                                                                          | $+0,3125 gl$                                                                          |
|                                                                                    | $Q_{bc} = -Q_{cb}$         | $+0,5000 P$                                                                         | $+1,0000 P$                                                                         | $+1,5000 P$                                                                          | $+0,5000 gl$                                                                          | $+0,2500 gl$                                                                          |
|  | $M_b$                      | $-0,1750 Pl$                                                                        | $-0,3111 Pl$                                                                        | $-0,4375 Pl$                                                                         | $-0,1187 gl^2$                                                                        | $-0,0729 gl^2$                                                                        |
|                                                                                    | $M_c$                      | $-0,0500 Pl$                                                                        | $-0,0089 Pl$                                                                        | $-0,1250 Pl$                                                                         | $-0,0333 gl^2$                                                                        | $-0,0208 gl^2$                                                                        |
|                                                                                    | $\max M_1$                 | $+0,1625 Pl$                                                                        | $+0,2296 Pl$                                                                        | $+0,2812 Pl$                                                                         | $+0,0735 gl^2$                                                                        | —                                                                                     |
|                                                                                    | $\max M_2$                 | $+0,1375 Pl$                                                                        | $+0,1704 Pl^*)$                                                                     | $+0,2187 Pl$                                                                         | $+0,0535 gl^2$                                                                        | —                                                                                     |
|                                                                                    | $A = Q_{ab}$               | $+0,3250 P$                                                                         | $+0,6889 P$                                                                         | $+1,0625 P$                                                                          | $+0,3833 gl$                                                                          | $+0,1771 gl$                                                                          |
|                                                                                    | $B$                        | $+1,300 P$                                                                          | $+2,5333 P$                                                                         | $+3,7500 P$                                                                          | $+1,2000 gl$                                                                          | $+0,6250 gl$                                                                          |
|                                                                                    | $C$                        | $+0,4250 P$                                                                         | $+0,8667 P$                                                                         | $+1,3125 P$                                                                          | $+0,4500 gl$                                                                          | $+0,2187 gl$                                                                          |
|                                                                                    | $D = -Q_{dc}$              | $-0,0500 P$                                                                         | $-0,0889 P$                                                                         | $-0,1250 P$                                                                          | $-0,0333 gl$                                                                          | $-0,0208 gl$                                                                          |
|                                                                                    | $Q_{ba}$                   | $-0,6750 P$                                                                         | $-1,3111 P$                                                                         | $-1,9375 P$                                                                          | $-0,6167 gl$                                                                          | $-0,3229 gl$                                                                          |
|                                                                                    | $Q_{bc}$                   | $+0,6250 P$                                                                         | $+1,2222 P$                                                                         | $+1,8125 P$                                                                          | $+0,5833 gl$                                                                          | $+0,3020 gl$                                                                          |
|                                                                                    | $Q_{cb}$                   | $-0,3750 P$                                                                         | $-0,7778 P$                                                                         | $-1,1875 P$                                                                          | $-0,4167 gl$                                                                          | $-0,1979 gl$                                                                          |
|                                                                                    | $Q_{cd}$                   | $+0,0500 P$                                                                         | $+0,0889 P$                                                                         | $+0,1250 P$                                                                          | $+0,0333 gl$                                                                          | $+0,0208 gl$                                                                          |
|  | $M_b = M_c$                | $-0,0750 Pl$                                                                        | $-0,1333 Pl$                                                                        | $-0,1875 Pl$                                                                         | $-0,0500 gl^2$                                                                        | $-0,0312 gl^2$                                                                        |
|                                                                                    | $\max M_1 = \max M_3$      | $+0,2125 Pl$                                                                        | $+0,2889 Pl$                                                                        | $+0,4062 Pl$                                                                         | $+0,1012 gl^2$                                                                        | —                                                                                     |
|                                                                                    | $A = D = Q_{ab} = -Q_{dc}$ | $+0,4550 P$                                                                         | $+0,8667 P$                                                                         | $+1,3125 P$                                                                          | $+0,4500 gl$                                                                          | $+0,2187 gl$                                                                          |
|                                                                                    | $B = C = -Q_{ba} = Q_{cd}$ | $+0,5750 P$                                                                         | $+1,1333 P$                                                                         | $+1,6875 P$                                                                          | $+0,5500 gl$                                                                          | $+0,2812 gl$                                                                          |
|                                                                                    | $Q_{bc} = Q_{cb}$          | 0                                                                                   | 0                                                                                   | 0                                                                                    | —                                                                                     | 0                                                                                     |
|                                                                                    |                            |                                                                                     |                                                                                     |                                                                                      |                                                                                       |                                                                                       |

\*)  $\max. M_2$  je pod druhým břemenem

# Výpočet vnitřních sil spojitýho nosníku - obecná rozpětí polí

Tabulka C.48. Spojitý nosník stálého průřezu o dvou polích :

| Zatížení                                                                           | $n$ | Statická veličina          |  |  |  |  |  |
|------------------------------------------------------------------------------------|-----|----------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|    | 0,8 | $M_b$                      | $-0,069\ 4\ g l^2$                                                                | $-0,104\ 2\ P l$                                                                  | $-0,185\ 2\ P l$                                                                   | $-0,260\ 4\ P l$                                                                    | $-0,043\ 4\ g l^2$                                                                  |
|                                                                                    |     | $\max M_1$                 | $+0,092\ 7\ g l^2$                                                                | $-0,197\ 9\ P l$                                                                  | $+0,271\ 6\ P l$                                                                   | $+0,369\ 8\ P l$                                                                    | —                                                                                   |
|                                                                                    |     | $Q_{ab} = A$               | $+0,430\ 5\ g l$                                                                  | $+0,395\ 8\ P$                                                                    | $+0,814\ 8\ P$                                                                     | $+1,239\ 6\ P$                                                                      | $+0,206\ 6\ g l$                                                                    |
|                                                                                    |     | $Q_{ba}$                   | $-0,569\ 5\ g l$                                                                  | $-0,604\ 2\ P$                                                                    | $-1,185\ 2\ P$                                                                     | $-1,760\ 4\ P$                                                                      | $-0,293\ 4\ g l$                                                                    |
|                                                                                    |     | $Q_{bc}$                   | $+0,086\ 7\ g l$                                                                  | $+0,130\ 2\ P$                                                                    | $+0,231\ 5\ P$                                                                     | $+0,325\ 5\ P$                                                                      | $+0,054\ 2\ g l$                                                                    |
|                                                                                    |     | $B$                        | $+0,656\ 2\ g l$                                                                  | $+0,734\ 4\ P$                                                                    | $+1,416\ 7\ P$                                                                     | $+2,085\ 9\ P$                                                                      | $+0,347\ 6\ g l$                                                                    |
|                                                                                    |     | $C = -Q_{cb}$              | $-0,086\ 7\ g l$                                                                  | $-0,130\ 2\ P$                                                                    | $-0,231\ 5\ P$                                                                     | $-0,325\ 5\ P$                                                                      | $-0,054\ 2\ g l$                                                                    |
|                                                                                    | 1,0 | $M_b$                      | $-0,062\ 5\ g l^2$                                                                | $-0,093\ 7\ P l$                                                                  | $-0,166\ 7\ P l$                                                                   | $-0,234\ 4\ P l$                                                                    | $-0,039\ 1\ g l^2$                                                                  |
|                                                                                    |     | $\max M_1$                 | $+0,095\ 7\ g l^2$                                                                | $+0,203\ 1\ P l$                                                                  | $+0,277\ 8\ P l$                                                                   | $+0,382\ 8\ P l$                                                                    | —                                                                                   |
|                                                                                    |     | $Q_{ab} = A$               | $+0,437\ 5\ g l$                                                                  | $+0,406\ 2\ P$                                                                    | $+0,833\ 3\ P$                                                                     | $+1,265\ 6\ P$                                                                      | $+0,210\ 9\ g l$                                                                    |
|                                                                                    |     | $Q_{ba}$                   | $-0,562\ 5\ g l$                                                                  | $-0,593\ 7\ P$                                                                    | $-1,166\ 7\ P$                                                                     | $-1,734\ 4\ P$                                                                      | $-0,289\ 1\ g l$                                                                    |
|                                                                                    |     | $Q_{bc}$                   | $+0,062\ 5\ g l$                                                                  | $+0,093\ 7\ P$                                                                    | $+0,166\ 7\ P$                                                                     | $+0,234\ 4\ P$                                                                      | $+0,039\ 1\ g l$                                                                    |
|                                                                                    |     | $B$                        | $+0,625\ 0\ g l$                                                                  | $+0,687\ 5\ P$                                                                    | $+1,333\ 4\ P$                                                                     | $+1,968\ 8\ P$                                                                      | $+0,328\ 2\ g l$                                                                    |
|                                                                                    |     | $C = -Q_{cb}$              | $-0,062\ 5\ g l$                                                                  | $-0,093\ 7\ P$                                                                    | $-0,166\ 7\ P$                                                                     | $-0,234\ 4\ P$                                                                      | $-0,039\ 1\ g l$                                                                    |
|                                                                                    | 1,2 | $M_b$                      | $-0,056\ 8\ g l^2$                                                                | $-0,085\ 2\ P l$                                                                  | $-0,151\ 5\ P l$                                                                   | $-0,213\ 1\ P l$                                                                    | $-0,035\ 5\ g l^2$                                                                  |
|                                                                                    |     | $\max M_1$                 | $+0,098\ 2\ g l^2$                                                                | $+0,207\ 4\ P l$                                                                  | $+0,282\ 8\ P l$                                                                   | $+0,393\ 4\ P l$                                                                    | —                                                                                   |
|                                                                                    |     | $Q_{ab} = A$               | $+0,443\ 2\ g l$                                                                  | $+0,414\ 8\ P$                                                                    | $+0,848\ 5\ P$                                                                     | $+1,286\ 9\ P$                                                                      | $+0,214\ 5\ g l$                                                                    |
|                                                                                    |     | $Q_{ba}$                   | $-0,556\ 8\ g l$                                                                  | $-0,585\ 2\ P$                                                                    | $-1,151\ 5\ P$                                                                     | $-1,713\ 1\ P$                                                                      | $-0,285\ 5\ g l$                                                                    |
|                                                                                    |     | $Q_{bc}$                   | $+0,047\ 3\ g l$                                                                  | $+0,071\ 0\ P$                                                                    | $+0,126\ 2\ P$                                                                     | $+0,177\ 6\ P$                                                                      | $+0,029\ 6\ g l$                                                                    |
|                                                                                    |     | $B$                        | $+0,604\ 1\ g l$                                                                  | $+0,656\ 3\ P$                                                                    | $+1,277\ 7\ P$                                                                     | $+1,890\ 7\ P$                                                                      | $+0,315\ 1\ g l$                                                                    |
|                                                                                    |     | $C = -Q_{cb}$              | $-0,047\ 3\ g l$                                                                  | $-0,071\ 0\ P$                                                                    | $-0,126\ 2\ P$                                                                     | $-0,177\ 6\ P$                                                                      | $-0,029\ 6\ g l$                                                                    |
|  | 0,8 | $M_b$                      | $-0,035\ 5\ g l^2$                                                                | $-0,066\ 7\ P l$                                                                  | $-0,118\ 5\ P l$                                                                   | $-0,166\ 7\ P l$                                                                    | $-0,022\ 2\ g l^2$                                                                  |
|                                                                                    |     | $\max M_2$                 | $+0,063\ 2\ g l^2$                                                                | $+0,166\ 8\ P l$                                                                  | $+0,227\ 2\ P l$                                                                   | $+0,316\ 7\ P l$                                                                    | —                                                                                   |
|                                                                                    |     | $Q_{ab} = Q_{ba} = A$      | $-0,035\ 5\ g l$                                                                  | $-0,066\ 7\ P$                                                                    | $-0,118\ 5\ P$                                                                     | $-0,166\ 7\ P$                                                                      | $-0,022\ 2\ g l$                                                                    |
|                                                                                    |     | $Q_{bc}$                   | $+0,444\ 4\ g l$                                                                  | $+0,583\ 3\ P$                                                                    | $+1,148\ 1\ P$                                                                     | $+1,708\ 3\ P$                                                                      | $+0,227\ 8\ g l$                                                                    |
|                                                                                    |     | $B$                        | $+0,479\ 9\ g l$                                                                  | $+0,650\ 0\ P$                                                                    | $+1,266\ 6\ P$                                                                     | $+1,875\ 0\ P$                                                                      | $+0,250\ 0\ g l$                                                                    |
|                                                                                    |     | $C = -Q_{cb}$              | $+0,355\ 6\ g l$                                                                  | $+0,416\ 7\ P$                                                                    | $+0,851\ 9\ P$                                                                     | $+1,291\ 7\ P$                                                                      | $+0,172\ 2\ g l$                                                                    |
|                                                                                    | 1,0 | $M_b$                      | $-0,062\ 5\ g l^2$                                                                | $-0,093\ 7\ P l$                                                                  | $-0,166\ 7\ P l$                                                                   | $-0,234\ 4\ P l$                                                                    | $-0,039\ 1\ g l^2$                                                                  |
|                                                                                    |     | $\max M_2$                 | $+0,095\ 7\ g l^2$                                                                | $+0,203\ 1\ P l$                                                                  | $+0,277\ 8\ P l$                                                                   | $+0,382\ 8\ P l$                                                                    | —                                                                                   |
|                                                                                    |     | $Q_{ab} = A$               | $-0,062\ 5\ g l$                                                                  | $-0,093\ 7\ P$                                                                    | $-0,166\ 7\ P$                                                                     | $-0,234\ 4\ P$                                                                      | $-0,039\ 1\ g l$                                                                    |
|                                                                                    |     | $Q_{ba}$                   | $-0,062\ 5\ g l$                                                                  | $-0,093\ 7\ P$                                                                    | $-0,166\ 7\ P$                                                                     | $-0,234\ 4\ P$                                                                      | $-0,039\ 1\ g l$                                                                    |
|                                                                                    |     | $Q_{bc}$                   | $+0,562\ 5\ g l$                                                                  | $+0,593\ 7\ P$                                                                    | $+1,166\ 7\ P$                                                                     | $+1,734\ 4\ P$                                                                      | $+0,289\ 1\ g l$                                                                    |
|                                                                                    |     | $B$                        | $+0,625\ 0\ g l$                                                                  | $+0,687\ 5\ P$                                                                    | $+1,333\ 4\ P$                                                                     | $+1,968\ 8\ P$                                                                      | $+0,328\ 2\ g l$                                                                    |
|                                                                                    |     | $C = -Q_{cb}$              | $+0,437\ 5\ g l$                                                                  | $+0,406\ 3\ P$                                                                    | $+0,833\ 3\ P$                                                                     | $+1,265\ 6\ P$                                                                      | $+0,210\ 9\ g l$                                                                    |
|                                                                                    | 1,2 | $M_b$                      | $-0,098\ 2\ g l^2$                                                                | $-0,122\ 7\ P l$                                                                  | $-0,218\ 2\ P l$                                                                   | $-0,306\ 8\ P l$                                                                    | $-0,061\ 4\ g l^2$                                                                  |
|                                                                                    |     | $\max M_2$                 | $+0,134\ 3\ g l^2$                                                                | $+0,238\ 6\ P l$                                                                  | $+0,327\ 3\ P l$                                                                   | $+0,446\ 6\ P l$                                                                    | —                                                                                   |
|                                                                                    |     | $Q_{ab} = A = Q_{ba}$      | $-0,098\ 2\ g l$                                                                  | $-0,122\ 7\ P$                                                                    | $-0,218\ 2\ P$                                                                     | $-0,306\ 8\ P$                                                                      | $-0,061\ 4\ g l$                                                                    |
|                                                                                    |     | $Q_{bc}$                   | $+0,681\ 8\ g l$                                                                  | $+0,602\ 3\ P$                                                                    | $+1,181\ 8\ P$                                                                     | $+1,755\ 7\ P$                                                                      | $+0,351\ 1\ g l$                                                                    |
|                                                                                    |     | $B$                        | $+0,780\ 0\ g l$                                                                  | $+0,725\ 0\ P$                                                                    | $+1,400\ 0\ P$                                                                     | $+2,062\ 5\ P$                                                                      | $+0,412\ 5\ g l$                                                                    |
|                                                                                    |     | $C = -Q_{cb}$              | $+0,518\ 2\ g l$                                                                  | $+0,397\ 7\ P$                                                                    | $+0,818\ 2\ P$                                                                     | $+1,244\ 3\ P$                                                                      | $+0,248\ 9\ g l$                                                                    |
|  | 0,8 | $M_b$                      | $-0,105\ 0\ g l^2$                                                                | $-0,170\ 8\ P l$                                                                  | $-0,303\ 7\ P l$                                                                   | $-0,427\ 1\ P l$                                                                    | $-0,065\ 6\ g l^2$                                                                  |
|                                                                                    |     | $\max M_1$                 | $+0,078\ 0\ g l^2$                                                                | $+0,164\ 5\ P l$                                                                  | $+0,232\ 1\ P l$                                                                   | $+0,286\ 4\ P l$                                                                    | —                                                                                   |
|                                                                                    |     | $\max M_2$                 | $+0,036\ 1\ g l^2$                                                                | $+0,114\ 6\ P l$                                                                  | $+0,165\ 4\ P l$                                                                   | $+0,193\ 2^{(1)}\ P l$                                                              | —                                                                                   |
|                                                                                    |     | $Q_{ab} = A$               | $+0,395\ 0\ g l$                                                                  | $+0,329\ 1\ P$                                                                    | $+0,696\ 3\ P$                                                                     | $+1,072\ 9\ P$                                                                      | $+0,184\ 4\ g l$                                                                    |
|                                                                                    |     | $Q_{ba}$                   | $-0,605\ 0\ g l$                                                                  | $-0,670\ 9\ P$                                                                    | $-1,303\ 7\ P$                                                                     | $-1,927\ 1\ P$                                                                      | $-0,315\ 6\ g l$                                                                    |
|                                                                                    |     | $B$                        | $+0,531\ 1\ g l$                                                                  | $+0,713\ 5\ P$                                                                    | $+1,379\ 6\ P$                                                                     | $+2,033\ 8\ P$                                                                      | $+0,282\ 0\ g l$                                                                    |
|                                                                                    | 1,0 | $M_b$                      | $-0,125\ 0\ g l^2$                                                                | $-0,187\ 5\ P l$                                                                  | $-0,333\ 3\ P l$                                                                   | $-0,468\ 7\ P l$                                                                    | $-0,078\ 1\ g l^2$                                                                  |
|                                                                                    |     | $\max M_1$                 | $+0,070\ 3\ g l^2$                                                                | $+0,156\ 2\ P l$                                                                  | $+0,222\ 2\ P l$                                                                   | $+0,265\ 6\ P l$                                                                    | —                                                                                   |
|                                                                                    |     | $\max M_2$                 | $+0,070\ 3\ g l^2$                                                                | $+0,156\ 2\ P l$                                                                  | $+0,222\ 2\ P l$                                                                   | $+0,265\ 6\ P l$                                                                    | —                                                                                   |
|                                                                                    |     | $Q_{ab} = -Q_{cb} = A = C$ | $+0,375\ 0\ g l$                                                                  | $+0,312\ 5\ P$                                                                    | $+0,666\ 6\ P$                                                                     | $+1,031\ 2\ P$                                                                      | $+0,171\ 8\ g l$                                                                    |
|                                                                                    |     | $Q_{bc} = -Q_{ba}$         | $+0,625\ 0\ g l$                                                                  | $+0,689\ 5\ P$                                                                    | $+1,333\ 3\ P$                                                                     | $+1,968\ 8\ P$                                                                      | $+0,328\ 2\ g l$                                                                    |
|                                                                                    |     | $B$                        | $+1,250\ 0\ g l$                                                                  | $+1,375\ 0\ P$                                                                    | $+2,666\ 7\ P$                                                                     | $+3,937\ 6\ P$                                                                      | $+0,656\ 4\ g l$                                                                    |
|                                                                                    | 1,2 | $M_b$                      | $-0,155\ 0\ g l^2$                                                                | $-0,207\ 9\ P l$                                                                  | $-0,369\ 7\ P l$                                                                   | $-0,519\ 9\ P l$                                                                    | $-0,096\ 9\ g l^2$                                                                  |
|                                                                                    |     | $\max M_1$                 | $+0,059\ 5\ g l^2$                                                                | $+0,146\ 0\ P l$                                                                  | $+0,210\ 1\ P l$                                                                   | $+0,240\ 0\ P l$                                                                    | —                                                                                   |
|                                                                                    |     | $\max M_2$                 | $+0,110\ 9\ g l^2$                                                                | $+0,196\ 0\ P l$                                                                  | $+0,276\ 8\ P l$                                                                   | $+0,340\ 0\ P l$                                                                    | —                                                                                   |
|                                                                                    |     | $Q_{ab} = A$               | $+0,345\ 0\ g l$                                                                  | $+0,292\ 1\ P$                                                                    | $+0,630\ 3\ P$                                                                     | $+0,980\ 1\ P$                                                                      | $+0,153\ 1\ g l$                                                                    |
|                                                                                    |     | $Q_{ba}$                   | $-0,655\ 0\ g l$                                                                  | $-0,707\ 9\ P$                                                                    | $-1,369\ 7\ P$                                                                     | $-2,019\ 9\ P$                                                                      | $-0,346\ 9\ g l$                                                                    |
|                                                                                    |     | $B$                        | $+0,729\ 1\ g l$                                                                  | $+0,673\ 3\ P$                                                                    | $+1,308\ 0\ P$                                                                     | $+1,933\ 3\ P$                                                                      | $+0,380\ 7\ g l$                                                                    |
|                                                                                    |     | $C = -Q_{cb}$              | $+0,470\ 9\ g l$                                                                  | $+0,326\ 7\ P$                                                                    | $+0,691\ 9\ P$                                                                     | $+1,066\ 7\ P$                                                                      | $+0,219\ 3\ g l$                                                                    |

<sup>1)</sup> max. M je pod třetím břemenem

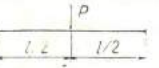
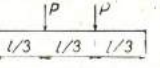
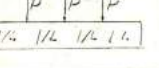
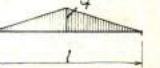
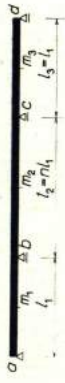
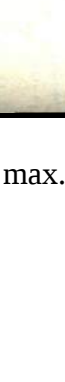
Tabulka C.49. Spojitý nosník stálého průřezu o třech polích :

| Zatížení | $n$ | Statická veličina        | $q$                  | $P$                  | $P$                  | $P$                  | $q$                  |
|----------|-----|--------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|          |     |                          |                      |                      |                      |                      |                      |
|          | 0,8 | $M_b$                    | $-0,073 \ 0 \ g l^2$ | $-0,109 \ 6 \ P l_1$ | $-0,194 \ 8 \ P l_1$ | $-0,273 \ 9 \ P l_1$ | $-0,045 \ 6 \ g l^2$ |
|          |     | $M_c$                    | $+0,016 \ 2 \ g l^2$ | $+0,024 \ 3 \ P l_1$ | $+0,043 \ 2 \ P l_1$ | $+0,060 \ 9 \ P l_1$ | $+0,010 \ 1 \ g l^2$ |
|          |     | $\max M_1$               | $+0,091 \ 1 \ g l^2$ | $+0,195 \ 2 \ P l_1$ | $+0,268 \ 4 \ P l_1$ | $+0,363 \ 0 \ P l_1$ | —                    |
|          |     | $Q_{ab} = A$             | $+0,426 \ 9 \ g l$   | $+0,390 \ 4 \ P$     | $+0,805 \ 2 \ P$     | $+1,226 \ 0 \ P$     | $+0,204 \ 3 \ g l$   |
|          |     | $Q_{ba}$                 | $-0,573 \ 0 \ g l$   | $-0,609 \ 6 \ P$     | $-1,194 \ 8 \ P$     | $-1,773 \ 9 \ P$     | $-0,295 \ 6 \ g l$   |
|          |     | $Q_{bc} = Q_{cb}$        | $+0,111 \ 6 \ g l$   | $+0,167 \ 3 \ P$     | $+0,297 \ 6 \ P$     | $+0,418 \ 5 \ P$     | $+0,069 \ 7 \ g l$   |
|          |     | $B$                      | $+0,684 \ 6 \ g l$   | $+0,776 \ 9 \ P$     | $+1,492 \ 4 \ P$     | $+2,192 \ 4 \ P$     | $+0,365 \ 4 \ g l$   |
|          |     | $-Q_{cd} = -Q_{dc} = +D$ | $+0,016 \ 2 \ g l$   | $+0,024 \ 3 \ P$     | $+0,043 \ 3 \ P$     | $+0,060 \ 9 \ P$     | $+0,010 \ 1 \ g l$   |
|          |     | $C$                      | $-0,127 \ 8 \ g l$   | $-0,191 \ 7 \ P$     | $-0,340 \ 9 \ P$     | $-0,479 \ 3 \ P$     | $-0,079 \ 9 \ g l$   |
|          |     | $M_b$                    | $-0,066 \ 7 \ g l^2$ | $-0,100 \ 0 \ P l_1$ | $-0,177 \ 8 \ P l_1$ | $-0,250 \ 0 \ P l_1$ | $-0,041 \ 7 \ g l^2$ |
|          | 1,0 | $M_c$                    | $+0,046 \ 7 \ g l^2$ | $+0,025 \ 0 \ P l_1$ | $+0,044 \ 4 \ P l_1$ | $+0,062 \ 5 \ P l_1$ | $+0,010 \ 1 \ g l^2$ |
|          |     | $\max M_1$               | $+0,093 \ 9 \ g l^2$ | $+0,200 \ 0 \ P l_1$ | $+0,270 \ 7 \ P l_1$ | $+0,375 \ 0 \ P l_1$ | —                    |
|          |     | $Q_{ab} = A$             | $+0,433 \ 3 \ g l$   | $+0,400 \ 0 \ P$     | $+0,822 \ 2 \ P$     | $+1,250 \ 0 \ P$     | $+0,208 \ 3 \ g l$   |
|          |     | $Q_{ba}$                 | $-0,566 \ 7 \ g l$   | $-0,600 \ 0 \ P$     | $-1,177 \ 8 \ P$     | $-1,750 \ 0 \ P$     | $+0,291 \ 7 \ g l$   |
|          |     | $Q_{bc} = Q_{cb}$        | $+0,083 \ 3 \ g l$   | $+0,125 \ 0 \ P$     | $+0,222 \ 2 \ P$     | $+0,312 \ 5 \ P$     | $+0,052 \ 0 \ g l$   |
|          |     | $B$                      | $+0,650 \ 0 \ g l$   | $+0,725 \ 0 \ P$     | $+1,400 \ 0 \ P$     | $+2,062 \ 5 \ P$     | $+0,343 \ 7 \ g l$   |
|          |     | $-Q_{cd} = -Q_{dc} = D$  | $+0,016 \ 7 \ g l$   | $+0,025 \ 0 \ P$     | $+0,044 \ 4 \ P$     | $+0,062 \ 5 \ P$     | $+0,010 \ 4 \ g l$   |
|          |     | $C$                      | $-0,100 \ 0 \ g l$   | $-0,150 \ 0 \ P$     | $-0,266 \ 7 \ P$     | $-0,375 \ 0 \ P$     | $-0,062 \ 5 \ g l$   |
|          |     | $M_b$                    | $-0,061 \ 4 \ g l^2$ | $-0,092 \ 1 \ P l_1$ | $-0,163 \ 7 \ P l_1$ | $-0,230 \ 2 \ P l_1$ | $-0,038 \ 4 \ g l^2$ |
|          |     | $M_c$                    | $+0,016 \ 7 \ g l^2$ | $+0,025 \ 1 \ P l_1$ | $+0,044 \ 6 \ P l_1$ | $+0,062 \ 8 \ P l_1$ | $+0,010 \ 5 \ g l^2$ |
|          | 1,2 | $\max M_1$               | $+0,096 \ 2 \ g l^2$ | $+0,204 \ 0 \ P l_1$ | $+0,278 \ 8 \ P l_1$ | $+0,384 \ 9 \ P l_1$ | —                    |
|          |     | $Q_{ab} = A$             | $+0,438 \ 6 \ g l$   | $+0,407 \ 9 \ P$     | $+0,836 \ 3 \ P$     | $+1,269 \ 8 \ P$     | $+0,211 \ 6 \ g l$   |
|          |     | $Q_{ba}$                 | $-0,561 \ 4 \ g l$   | $-0,592 \ 1 \ P$     | $-1,163 \ 7 \ P$     | $-1,730 \ 2 \ P$     | $-0,288 \ 4 \ g l$   |
|          |     | $Q_{bc} = Q_{cb}$        | $+0,065 \ 1 \ g l$   | $+0,097 \ 6 \ P$     | $+0,173 \ 6 \ P$     | $+0,244 \ 1 \ P$     | $+0,040 \ 7 \ g l$   |
|          |     | $B$                      | $+0,626 \ 5 \ g l$   | $+0,689 \ 7 \ P$     | $+1,337 \ 3 \ P$     | $+1,974 \ 3 \ P$     | $+0,329 \ 0 \ g l$   |
|          |     | $-Q_{cd} = D = -Q_{dc}$  | $+0,016 \ 7 \ g l$   | $+0,025 \ 1 \ P$     | $+0,044 \ 6 \ P$     | $+0,062 \ 8 \ P$     | $+0,010 \ 5 \ g l$   |
|          |     | $C$                      | $-0,081 \ 8 \ g l$   | $-0,122 \ 8 \ P$     | $-0,218 \ 2 \ P$     | $-0,306 \ 9 \ P$     | $-0,051 \ 1 \ g l$   |

<sup>1)</sup> max.  $M_1$  je pod druhým břemenem

| Zatížení | $n$ | Statická veličina                             | $q$                  | $P$                  | $P$                  | $P$                  | $q$                  |
|----------|-----|-----------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|          |     |                                               |                      |                      |                      |                      |                      |
|          | 0,8 | $M_b = M_c$                                   | $-0,029 \ 1 \ g l^2$ | $-0,054 \ 5 \ P l_1$ | $-0,097 \ 0 \ P l_1$ | $-0,136 \ 4 \ P l_1$ | $-0,018 \ 2 \ g l^2$ |
|          |     | $\max M_2$                                    | $+0,050 \ 9 \ g l^2$ | $+0,145 \ 4 \ P l_1$ | $+0,169 \ 7 \ P l_1$ | $+0,263 \ 6 \ P l_1$ | —                    |
|          |     | $Q_{ab} = Q_{ba} = A = D = -Q_{cd} = -Q_{dc}$ | $-0,029 \ 1 \ g l$   | $-0,054 \ 5 \ P$     | $-0,097 \ 0 \ P$     | $-0,136 \ 4 \ P$     | $-0,018 \ 2 \ g l$   |
|          |     | $Q_{bc} = -Q_{cb}$                            | $+0,400 \ 0 \ g l$   | $+0,500 \ 0 \ P$     | $+1,000 \ 0 \ P$     | $+1,500 \ 0 \ P$     | $+0,200 \ 0 \ g l$   |
|          |     | $B = C$                                       | $+0,429 \ 1 \ g l$   | $+0,554 \ 5 \ P$     | $+1,097 \ 0 \ P$     | $+1,636 \ 4 \ P$     | $+0,218 \ 2 \ g l$   |
|          |     | $M_b = M_c$                                   | $-0,050 \ 0 \ g l^2$ | $-0,075 \ 0 \ P l_1$ | $-0,133 \ 3 \ P l_1$ | $-0,187 \ 5 \ P l_1$ | $-0,031 \ 2 \ g l^2$ |
|          |     | $\max M_2$                                    | $+0,075 \ 0 \ g l^2$ | $+0,175 \ 0 \ P l_1$ | $+0,200 \ 0 \ P l_1$ | $+0,312 \ 5 \ P l_1$ | —                    |
|          |     | $Q_{ab} = Q_{ba} = A = D = -Q_{cd} = -Q_{dc}$ | $-0,050 \ 0 \ g l$   | $-0,075 \ 0 \ P$     | $-0,133 \ 3 \ P$     | $-0,187 \ 5 \ P$     | $-0,031 \ 2 \ g l$   |
|          |     | $Q_{bc} = -Q_{cb}$                            | $+0,500 \ 0 \ g l$   | $+0,500 \ 0 \ P$     | $+1,000 \ 0 \ P$     | $+1,500 \ 0 \ P$     | $+0,250 \ 0 \ g l$   |
|          |     | $B = C$                                       | $+0,550 \ 0 \ g l$   | $+0,575 \ 0 \ P$     | $+1,133 \ 3 \ P$     | $+1,687 \ 5 \ P$     | $+0,281 \ 2 \ g l$   |
|          | 1,0 | $M_b = M_c$                                   | $-0,077 \ 1 \ g l^2$ | $-0,096 \ 4 \ P l_1$ | $-0,171 \ 4 \ P l_1$ | $-0,241 \ 1 \ P l_1$ | $-0,048 \ 2 \ g l^2$ |
|          |     | $\max M_2$                                    | $+0,102 \ 8 \ g l^2$ | $+0,203 \ 5 \ P l_1$ | $+0,228 \ 6 \ P l_1$ | $+0,358 \ 9 \ P l_1$ | —                    |
|          |     | $Q_{ab} = Q_{ba} = A = D = -Q_{cd} = -Q_{dc}$ | $-0,077 \ 1 \ g l$   | $-0,096 \ 4 \ P$     | $-0,171 \ 4 \ P$     | $-0,241 \ 1 \ P$     | $-0,048 \ 2 \ g l$   |
|          |     | $Q_{bc} = -Q_{cb}$                            | $+0,600 \ 0 \ g l$   | $+0,500 \ 0 \ P$     | $+1,000 \ 0 \ P$     | $+1,500 \ 0 \ P$     | $+0,300 \ 0 \ g l$   |
|          |     | $B = C$                                       | $+0,677 \ 1 \ g l$   | $+0,596 \ 4 \ P$     | $+1,171 \ 4 \ P$     | $+1,741 \ 1 \ P$     | $+0,348 \ 2 \ g l$   |
|          |     | $M_b = M_c$                                   | $-0,056 \ 8 \ g l^2$ | $-0,085 \ 2 \ P l_1$ | $-0,151 \ 5 \ P l_1$ | $-0,213 \ 1 \ P l_1$ | $-0,035 \ 5 \ g l^2$ |
|          |     | $\max M_1 = \max M_3$                         | $+0,098 \ 2 \ g l^2$ | $+0,207 \ 4 \ P l_1$ | $+0,282 \ 8 \ P l_1$ | $+0,393 \ 5 \ P l_1$ | —                    |
|          |     | $Q_{ab} = A = -Q_{dc} = D$                    | $+0,443 \ 2 \ g l$   | $+0,414 \ 8 \ P$     | $+0,848 \ 5 \ P$     | $+1,286 \ 9 \ P$     | $+0,214 \ 5 \ g l$   |
|          |     | $-Q_{ba} = B = Q_{cd} = C$                    | $+0,556 \ 8 \ g l$   | $+0,585 \ 2 \ P$     | $+1,151 \ 5 \ P$     | $+1,713 \ 1 \ P$     | $+0,285 \ 5 \ g l$   |
|          |     | $Q_{cb} = Q_{bc}$                             | 0                    | 0                    | 0                    | 0                    | 0                    |
|          | 1,2 | $M_b = M_c$                                   | $-0,050 \ 0 \ g l^2$ | $-0,075 \ 0 \ P l_1$ | $-0,133 \ 3 \ P l_1$ | $-0,187 \ 5 \ P l_1$ | $-0,031 \ 2 \ g l^2$ |
|          |     | $\max M_1 = \max M_3$                         | $+0,101 \ 2 \ g l^2$ | $+0,212 \ 5 \ P l_1$ | $+0,288 \ 9 \ P l_1$ | $+0,406 \ 2 \ P l_1$ | —                    |
|          |     | $Q_{ab} = A = D = -Q_{dc}$                    | $+0,450 \ 0 \ g l$   | $+0,425 \ 0 \ P$     | $+0,866 \ 7 \ P$     | $+1,312 \ 5 \ P$     | $+0,218 \ 7 \ g l$   |
|          |     | $-Q_{ba} = Q_{cd} = B = C$                    | $+0,550 \ 0 \ g l$   | $+0,575 \ 0 \ P$     | $+1,133 \ 3 \ P$     | $+1,687 \ 5 \ P$     | $+0,281 \ 2 \ g l$   |
|          |     | $Q_{bc} = Q_{cb}$                             | 0                    | 0                    | 0                    | 0                    | 0                    |
|          |     | $M_b = M_c$                                   | $-0,044 \ 6 \ g l^2$ | $-0,067 \ 0 \ P l_1$ | $-0,119 \ 0 \ P l_1$ | $-0,167 \ 4 \ P l_1$ | $-0,027 \ 9 \ g l^2$ |
|          |     | $\max M_1 = \max M_3$                         | $+0,103 \ 7 \ g l^2$ | $+0,216 \ 5 \ P l_1$ | $+0,293 \ 6 \ P l_1$ | $+0,416 \ 3 \ P l_1$ | —                    |
|          |     | $Q_{ab} = A = D = -Q_{dc}$                    | $+0,455 \ 4 \ g l$   | $+0,433 \ 0 \ P$     | $+0,881 \ 0 \ P$     | $+1,332 \ 6 \ P$     | $+0,222 \ 1 \ g l$   |
|          |     | $-Q_{ba} = B = Q_{cd} = C$                    | $+0,544 \ 6 \ g l$   | $+0,567 \ 0 \ P$     | $+1,119 \ 0 \ P$     | $+1,667 \ 4 \ P$     | $+0,277 \ 9 \ g l$   |
|          |     | $Q_{bc} = Q_{cb}$                             | 0                    | 0                    | 0                    | 0                    | 0                    |

Tabulka C.49. Spojitý nosník stálého průřezu o třech polích - pokračování :

| Zatížení                                                                            | $n$ | Statická veličina          |  |  |  |  |  |
|-------------------------------------------------------------------------------------|-----|----------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|    | 0,8 | $M_b = M_c$                | $-0,085 \, 9 \, gl_1^2$                                                           | $-0,139 \, 8 \, P$                                                                | $-0,248 \, 5 \, Pl_1$                                                              | $-0,349 \, 4 \, Pl_1$                                                               | $-0,053 \, 7 \, gl_1^2$                                                             |
|                                                                                     |     | $\max M_1 = \max M_3$      | $+0,085 \, 7 \, gl_1^2$                                                           | $+0,180 \, 1 \, Pl_1$                                                             | $+0,250 \, 5 \, Pl_1$                                                              | $+0,325 \, 3 \, Pl_1$                                                               | —                                                                                   |
|                                                                                     |     | $\max M_2$                 | $-0,005 \, 9 \, gl_1^2$                                                           | $+0,060 \, 2 \, Pl_1$                                                             | $+0,018 \, 2 \, Pl_1$                                                              | $+0,050 \, 6 \, Pl_1$                                                               | —                                                                                   |
|                                                                                     |     | $Q_{ab} = -Q_{dc} = A = D$ | $+0,414 \, 1 \, gl_1$                                                             | $+0,360 \, 2 \, P$                                                                | $+0,751 \, 5 \, P$                                                                 | $+1,150 \, 6 \, P$                                                                  | $+0,196 \, 3 \, gl_1$                                                               |
|                                                                                     |     | $-Q_{ba} = +Q_{cd}$        | $+0,585 \, 9 \, gl_1$                                                             | $+0,639 \, 8 \, P$                                                                | $+1,248 \, 5 \, P$                                                                 | $+1,849 \, 4 \, P$                                                                  | $+0,303 \, 7 \, gl_1$                                                               |
|                                                                                     |     | $Q_{bc} = -Q_{cb}$         | $+0,400 \, 0 \, gl_1$                                                             | $+0,500 \, 0 \, P$                                                                | $+1,000 \, 0 \, P$                                                                 | $+1,500 \, 0 \, P$                                                                  | $+0,200 \, 0 \, gl_1$                                                               |
|                                                                                     | 1,0 | $B = C$                    | $+0,985 \, 9 \, gl_1$                                                             | $+1,139 \, 8 \, P$                                                                | $+2,248 \, 5 \, P$                                                                 | $+3,349 \, 4 \, P$                                                                  | $+0,503 \, 7 \, gl_1$                                                               |
|                                                                                     |     | $M_b = M_c$                | $-0,100 \, 0 \, gl_1^2$                                                           | $-0,150 \, 0 \, Pl_1$                                                             | $-0,266 \, 7 \, Pl_1$                                                              | $-0,375 \, 0 \, Pl_1$                                                               | $-0,062 \, 5 \, gl_1^2$                                                             |
|                                                                                     |     | $\max M_1 = \max M_3$      | $+0,080 \, 0 \, gl_1^2$                                                           | $+0,175 \, 0 \, Pl_1$                                                             | $+0,244 \, 4 \, Pl_1$                                                              | $+0,312 \, 5 \, Pl_1$                                                               | —                                                                                   |
|                                                                                     |     | $\max M_2$                 | $+0,025 \, 0 \, gl_1^2$                                                           | $+0,100 \, 0 \, Pl_1$                                                             | $+0,066 \, 6 \, Pl_1$                                                              | $+0,125 \, 0 \, Pl_1$                                                               | —                                                                                   |
|                                                                                     |     | $Q_{ab} = A = D = -Q_{dc}$ | $+0,400 \, 0 \, gl_1$                                                             | $+0,350 \, 0 \, P$                                                                | $+0,733 \, 3 \, P$                                                                 | $+1,125 \, 0 \, P$                                                                  | $+0,187 \, 5 \, gl_1$                                                               |
|                                                                                     |     | $-Q_{ba} = +Q_{cd}$        | $+0,600 \, 0 \, gl_1$                                                             | $+0,650 \, 0 \, P$                                                                | $+1,266 \, 7 \, P$                                                                 | $+1,875 \, 0 \, P$                                                                  | $+0,312 \, 5 \, gl_1$                                                               |
|                                                                                     | 1,2 | $Q_{bc} = -Q_{cb}$         | $+0,500 \, 0 \, gl_1$                                                             | $+0,500 \, 0 \, P$                                                                | $+1,000 \, 0 \, P$                                                                 | $+1,500 \, 0 \, P$                                                                  | $+0,250 \, 0 \, gl_1$                                                               |
|                                                                                     |     | $B = C$                    | $+1,100 \, 0 \, gl_1$                                                             | $+1,150 \, 0 \, P$                                                                | $+2,066 \, 7 \, P$                                                                 | $+3,375 \, 0 \, P$                                                                  | $+0,562 \, 5 \, gl_1$                                                               |
|                                                                                     |     | $M_b = M_c$                | $-0,1218 \, gl_1^2$                                                               | $-0,163 \, 4 \, Pl_1$                                                             | $-0,290 \, 5 \, Pl_1$                                                              | $-0,408 \, 5 \, Pl_1$                                                               | $-0,076 \, 1 \, gl_1^2$                                                             |
|                                                                                     |     | $\max M_1 = \max M_3$      | $+0,071 \, 5 \, gl_1^2$                                                           | $+0,168 \, 3 \, Pl_1$                                                             | $+0,236 \, 5 \, Pl_1$                                                              | $+0,295 \, 7 \, Pl_1$                                                               | —                                                                                   |
|                                                                                     |     | $\max M_2$                 | $+0,058 \, 2 \, gl_1^2$                                                           | $+0,136 \, 6 \, Pl_1$                                                             | $+0,109 \, 5 \, Pl_1$                                                              | $+0,191 \, 5 \, Pl_1$                                                               | —                                                                                   |
|                                                                                     |     | $Q_{ab} = -Q_{dc} = A = D$ | $+0,378 \, 2 \, gl_1$                                                             | $+0,336 \, 6 \, P$                                                                | $+0,709 \, 5 \, P$                                                                 | $+1,091 \, 5 \, P$                                                                  | $+0,173 \, 9 \, gl_1$                                                               |
|  | 0,8 | $-Q_{ba} = +Q_{cd}$        | $+0,621 \, 8 \, gl_1$                                                             | $+0,663 \, 4 \, P$                                                                | $+1,290 \, 5 \, P$                                                                 | $+1,908 \, 5 \, P$                                                                  | $+0,326 \, 1 \, gl_1$                                                               |
|                                                                                     |     | $Q_{bc} = -Q_{cb}$         | $+0,600 \, 0 \, gl_1$                                                             | $+0,500 \, 0 \, P$                                                                | $+1,000 \, 0 \, P$                                                                 | $+1,500 \, 0 \, P$                                                                  | $+0,300 \, 0 \, gl_1$                                                               |
|                                                                                     |     | $B = C$                    | $+1,221 \, 8 \, gl_1$                                                             | $+1,164 \, 0 \, P$                                                                | $+2,290 \, 5 \, P$                                                                 | $+3,408 \, 5 \, P$                                                                  | $+0,626 \, 1 \, gl_1$                                                               |
|                                                                                     |     | $M_b$                      | $-0,102 \, 1 \, gl_1^2$                                                           | $-0,164 \, 1 \, Pl_1$                                                             | $-0,291 \, 7 \, Pl_1$                                                              | $-0,410 \, 3 \, Pl_1$                                                               | $-0,063 \, 8 \, gl_1^2$                                                             |
|                                                                                     |     | $M_c$                      | $-0,012 \, 8 \, gl_1^2$                                                           | $-0,030 \, 2 \, Pl_1$                                                             | $-0,053 \, 7 \, Pl_1$                                                              | $-0,075 \, 5 \, Pl_1$                                                               | $-0,008 \, 0 \, gl_1^2$                                                             |
|                                                                                     |     | $\max M_1$                 | $+0,079 \, 1 \, gl_1^2$                                                           | $+0,167 \, 9 \, Pl_1$                                                             | $+0,236 \, 1 \, Pl_1$                                                              | $+0,294 \, 8 \, Pl_1$                                                               | —                                                                                   |
|                                                                                     | 0,8 | $\max M_2$                 | $+0,028 \, 7 \, gl_1^2$                                                           | $+0,102 \, 8 \, Pl_1$                                                             | $+0,133 \, 6 \, Pl_1^{1)}$                                                         | $+0,157 \, 1 \, Pl_1$                                                               | —                                                                                   |
|                                                                                     |     | $Q_{ab} = A$               | $+0,397 \, 8 \, gl_1$                                                             | $+0,335 \, 8 \, P$                                                                | $+0,708 \, 2 \, P$                                                                 | $+1,089 \, 7 \, P$                                                                  | $+0,186 \, 2 \, gl_1$                                                               |
|                                                                                     |     | $Q_{ba}$                   | $-0,602 \, 1 \, gl_1$                                                             | $-0,664 \, 1 \, P$                                                                | $-1,291 \, 7 \, P$                                                                 | $-1,910 \, 3 \, P$                                                                  | $-0,313 \, 8 \, gl_1$                                                               |
|                                                                                     |     | $Q_{bc}$                   | $+0,511 \, 6 \, gl_1$                                                             | $+0,667 \, 3 \, P$                                                                | $+1,297 \, 6 \, P$                                                                 | $+1,918 \, 5 \, P$                                                                  | $+0,260 \, 7 \, gl_1$                                                               |
|                                                                                     |     | $Q_{cb}$                   | $-0,288 \, 4 \, gl_1$                                                             | $-0,332 \, 6 \, P$                                                                | $-0,702 \, 3 \, P$                                                                 | $-1,081 \, 5 \, P$                                                                  | $-0,130 \, 2 \, gl_1$                                                               |
|                                                                                     |     | $Q_{cd}$                   | $+0,012 \, 8 \, gl_1$                                                             | $+0,030 \, 2 \, P$                                                                | $+0,053 \, 7 \, P$                                                                 | $+0,075 \, 5 \, P$                                                                  | $+0,008 \, 0 \, gl_1$                                                               |
|  | 0,8 | $B$                        | $+1,113 \, 7 \, gl_1$                                                             | $+1,331 \, 5 \, P$                                                                | $+2,589 \, 4 \, P$                                                                 | $+3,828 \, 8 \, P$                                                                  | $+0,583 \, 6 \, gl_1$                                                               |
|                                                                                     |     | $C$                        | $+0,301 \, 2 \, gl_1$                                                             | $+0,362 \, 8 \, P$                                                                | $+0,756 \, 0 \, P$                                                                 | $+1,157 \, 0 \, P$                                                                  | $+0,138 \, 3 \, gl_1$                                                               |
|                                                                                     |     | $D = -Q_{dc}$              | $-0,012 \, 8 \, gl_1$                                                             | $-0,030 \, 2 \, P$                                                                | $-0,053 \, 7 \, P$                                                                 | $-0,075 \, 5 \, P$                                                                  | $-0,008 \, 0 \, gl_1$                                                               |
|                                                                                     |     | $M_b$                      | $-0,116 \, 7 \, gl_1^2$                                                           | $-0,175 \, 0 \, Pl_1$                                                             | $-0,311 \, 1 \, Pl_1$                                                              | $-0,437 \, 5 \, Pl_1$                                                               | $-0,072 \, 9 \, gl_1^2$                                                             |
|                                                                                     |     | $M_c$                      | $-0,033 \, 3 \, gl_1^2$                                                           | $-0,050 \, 0 \, Pl_1$                                                             | $-0,088 \, 9 \, Pl_1$                                                              | $-0,125 \, 0 \, Pl_1$                                                               | $-0,020 \, 8 \, gl_1^2$                                                             |
|                                                                                     |     | $\max M_1$                 | $+0,073 \, 5 \, gl_1^2$                                                           | $+0,162 \, 5 \, Pl_1$                                                             | $+0,229 \, 6 \, Pl_1$                                                              | $+0,281 \, 2 \, Pl_1$                                                               | —                                                                                   |
|                                                                                     | 1,0 | $\max M_2$                 | $+0,053 \, 5 \, gl_1^2$                                                           | $+0,137 \, 5 \, Pl_1$                                                             | $+0,170 \, 4 \, Pl_1^{1)}$                                                         | $+0,218 \, 7 \, Pl_1$                                                               | —                                                                                   |
|                                                                                     |     | $Q_{ab} = A$               | $+0,383 \, 3 \, gl_1$                                                             | $+0,325 \, 0 \, P$                                                                | $+0,688 \, 9 \, P$                                                                 | $+1,062 \, 5 \, P$                                                                  | $+0,177 \, 1 \, gl_1$                                                               |
|                                                                                     |     | $Q_{ba}$                   | $-0,616 \, 7 \, gl_1$                                                             | $-0,675 \, 0 \, P$                                                                | $-1,311 \, 1 \, P$                                                                 | $-1,937 \, 5 \, P$                                                                  | $+0,322 \, 9 \, gl_1$                                                               |
|                                                                                     |     | $Q_{bc}$                   | $+0,583 \, 3 \, gl_1$                                                             | $+0,625 \, 0 \, P$                                                                | $+1,222 \, 2 \, P$                                                                 | $+1,812 \, 5 \, P$                                                                  | $+0,302 \, 0 \, gl_1$                                                               |
|                                                                                     |     | $Q_{cb}$                   | $-0,416 \, 7 \, gl_1$                                                             | $-0,375 \, 0 \, P$                                                                | $-0,777 \, 8 \, P$                                                                 | $-1,187 \, 5 \, P$                                                                  | $-0,197 \, 9 \, gl_1$                                                               |
|                                                                                     |     | $Q_{cd}$                   | $+0,033 \, 3 \, gl_1$                                                             | $+0,050 \, 0 \, P$                                                                | $+0,088 \, 9 \, P$                                                                 | $+0,125 \, 0 \, P$                                                                  | $+0,020 \, 8 \, gl_1$                                                               |
|                                                                                     | 1,2 | $B$                        | $+1,200 \, 0 \, gl_1$                                                             | $+1,300 \, 0 \, P$                                                                | $+2,533 \, 3 \, P$                                                                 | $+3,750 \, 0 \, P$                                                                  | $+0,625 \, 0 \, gl_1$                                                               |
|                                                                                     |     | $C$                        | $+0,450 \, 0 \, gl_1$                                                             | $+0,425 \, 0 \, P$                                                                | $+0,866 \, 7 \, P$                                                                 | $+1,312 \, 5 \, P$                                                                  | $+0,218 \, 7 \, gl_1$                                                               |
|                                                                                     |     | $D = -Q_{dc}$              | $-0,033 \, 3 \, gl_1$                                                             | $-0,050 \, 0 \, P$                                                                | $-0,088 \, 9 \, P$                                                                 | $-0,125 \, 0 \, P$                                                                  | $-0,020 \, 8 \, gl_1$                                                               |
|                                                                                     |     | $M_b$                      | $-0,138 \, 5 \, gl_1^2$                                                           | $-0,188 \, 5 \, Pl_1$                                                             | $-0,335 \, 1 \, Pl_1$                                                              | $-0,471 \, 3 \, Pl_1$                                                               | $-0,086 \, 6 \, gl_1^2$                                                             |
|                                                                                     |     | $M_c$                      | $-0,060 \, 4 \, gl_1^2$                                                           | $-0,071 \, 3 \, Pl_1$                                                             | $-0,126 \, 8 \, Pl_1$                                                              | $-0,178 \, 2 \, Pl_1$                                                               | $-0,037 \, 7 \, gl_1^2$                                                             |
|                                                                                     |     | $\max M_1$                 | $+0,065 \, 3 \, gl_1^2$                                                           | $+0,155 \, 7 \, Pl_1$                                                             | $+0,221 \, 6 \, Pl_1$                                                              | $+0,264 \, 4 \, Pl_1$                                                               | —                                                                                   |
|                                                                                     | 1,2 | $\max M_2$                 | $+0,082 \, 6 \, gl_1^2$                                                           | $+0,170 \, 1 \, Pl_1$                                                             | $+0,203 \, 8 \, Pl_1^{1)}$                                                         | $+0,275 \, 2 \, Pl_1$                                                               | —                                                                                   |
|                                                                                     |     | $Q_{ab} = A$               | $+0,361 \, 5 \, gl_1$                                                             | $+0,311 \, 5 \, P$                                                                | $+0,664 \, 9 \, P$                                                                 | $+1,028 \, 7 \, P$                                                                  | $+0,163 \, 4 \, gl_1$                                                               |
|                                                                                     |     | $Q_{ba}$                   | $-0,638 \, 5 \, gl_1$                                                             | $-0,688 \, 5 \, P$                                                                | $-1,335 \, 1 \, P$                                                                 | $-1,971 \, 3 \, P$                                                                  | $-0,336 \, 6 \, gl_1$                                                               |
|                                                                                     |     | $Q_{bc}$                   | $+0,665 \, 1 \, gl_1$                                                             | $+0,597 \, 6 \, P$                                                                | $+1,173 \, 6 \, P$                                                                 | $+1,744 \, 1 \, P$                                                                  | $+0,340 \, 7 \, gl_1$                                                               |
|                                                                                     |     | $Q_{cb}$                   | $-0,534 \, 9 \, gl_1$                                                             | $-0,402 \, 4 \, P$                                                                | $-0,826 \, 4 \, P$                                                                 | $-1,255 \, 8 \, P$                                                                  | $-0,259 \, 3 \, gl_1$                                                               |
|                                                                                     |     | $Q_{cd}$                   | $+0,060 \, 4 \, gl_1$                                                             | $+0,071 \, 3 \, P$                                                                | $+0,126 \, 8 \, P$                                                                 | $+0,178 \, 3 \, P$                                                                  | $+0,037 \, 7 \, gl_1$                                                               |
|                                                                                     | 1,2 | $B$                        | $+1,303 \, 6 \, gl_1$                                                             | $+1,286 \, 2 \, P$                                                                | $+2,508 \, 7 \, P$                                                                 | $+3,715 \, 4 \, P$                                                                  | $+0,677 \, 3 \, gl_1$                                                               |
|                                                                                     |     | $C$                        | $+0,595 \, 3 \, gl_1$                                                             | $+0,473 \, 7 \, P$                                                                | $+0,953 \, 2 \, P$                                                                 | $+1,434 \, 1 \, P$                                                                  | $+0,297 \, 1 \, gl_1$                                                               |
|                                                                                     |     | $D = -Q_{dc}$              | $-0,060 \, 4 \, gl_1$                                                             | $-0,071 \, 3 \, P$                                                                | $-0,126 \, 8 \, P$                                                                 | $-0,178 \, 3 \, P$                                                                  | $-0,037 \, 7 \, gl_1$                                                               |

<sup>1)</sup> max.  $M_1$  je pod druhým břemenem