



| Вариант | Смещения опор, мм | | | | Расстояние от левой опоры до сечения нагрузки м, м | | | Расстояние от левой опоры до сечения нагрузки P, м | | | Пролеты, м | | | Расположение распределенной нагрузки от левой и правой опор, м | | | | | | Моменты, кНм | | | Сосредоточенные силы, кН | | | Интенсивности распределенных нагрузок, кН/м | | | | | | Типы опор | | Характеристики сечения двутавра | | | |
|---------|-------------------|-------|-------|-------|--|-------|-------|--|-------|-------|------------|----------|----------|--|----------|----------|----------|----------|----------|--------------|-------|-------|--------------------------|-------|-------|---|----------|----------|----------|----------|----------|-----------|-------|---------------------------------|--------------------|--------------------|-----|
| | f_0 | f_1 | f_2 | f_3 | b_1 | b_2 | b_3 | c_1 | c_2 | c_3 | l_{01} | l_{12} | l_{23} | b_{01} | d_{01} | d_{12} | d_{12} | b_{23} | d_{23} | m_1 | m_2 | m_3 | P_1 | P_2 | P_3 | q_{01} | q_{10} | q_{12} | q_{21} | q_{23} | q_{32} | a_0 | a_3 | № | I, см ⁴ | W, см ³ | |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1,2 | 1,1 | 0 | 0 | 2,2 | 2,2 | 2,4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 65 | 0 | 0 | 20 | 20 | 0 | 0 | 0 | 0 | 0 | ∞ | ∞ | 22 | 2550 | 232 |
| 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,1 | 0 | 2,2 | 2,2 | 2,6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 0 | -90 | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 30 | ∞ | 0 | 24 | 3460 | 289 |
| 3 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 2 | 2,4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 0 | 90 | 0 | 0 | 20 | 20 | 0 | 0 | 0 | ∞ | ∞ | 22a | 2790 | 254 |
| 4 | 0 | 0 | 0 | 0 | 0 | 1,2 | 0 | 0 | 0 | 1,3 | 2,4 | 2,4 | 2,6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 25 | 25 | ∞ | 0 | 24 | 3460 | 289 |
| 5 | 0 | 0 | 0 | 0 | 0 | 1,2 | 0 | 1,2 | 0 | 1,4 | 2,4 | 2,4 | 2,8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -20 | 0 | 70 | 0 | 60 | 0 | 0 | 0 | 0 | 0 | 0 | ∞ | ∞ | 0 | 22a | 2790 | 254 |
| 6 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1,2 | 0 | 2 | 2,4 | 2,2 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 140 | 0 | 0 | 0 | 0 | 0 | 15 | 15 | 0 | ∞ | ∞ | 27 | 5010 | 371 |
| 7 | 0 | 0 | 0 | 0 | 1,2 | 0 | 0 | 0 | 0 | 1,2 | 2,4 | 2,6 | 2,4 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | 0 | 70 | 10 | 10 | 0 | 0 | 0 | 0 | ∞ | 0 | 24a | 3800 | 317 | |
| 8 | 0 | 0 | 0 | 0 | 1,4 | 0 | 0 | 0 | 1,2 | 1,3 | 2,8 | 2,4 | 2,6 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | -40 | 60 | 0 | 0 | 0 | 0 | 25 | 25 | 0 | ∞ | ∞ | 24 | 3460 | 289 |
| 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,1 | 2,2 | 2,2 | 2,2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -70 | 30 | 30 | 0 | 0 | 0 | 0 | ∞ | ∞ | 20 | 1840 | 184 | |
| 10 | 0 | 0 | 0 | 0 | 0 | 1,1 | 0 | 1,05 | 0 | 1,2 | 2,1 | 2,2 | 2,4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 40 | 0 | -80 | 0 | -70 | 0 | 0 | 0 | 0 | 0 | 0 | ∞ | ∞ | 0 | 24a | 3800 | 317 |
| 11 | 0 | 0 | 0 | 0 | 2,4 | 0 | 0 | 0 | 0,8 | 0 | 2,4 | 2,2 | 1,6 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 50 | 0 | 0 | -30 | -30 | 0 | 0 | 0 | ∞ | ∞ | 22 | 2550 | 232 | |
| 12 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1,2 | 0 | 0 | 2,4 | 2,2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -20 | 100 | 0 | 0 | 0 | 0 | 20 | 20 | 0 | 0 | ∞ | ∞ | 24 | 3460 | 289 | |
| 13 | 0 | 0 | 0 | 0 | 1,3 | 0 | 0 | 0 | 1,1 | 0 | 2,6 | 2,2 | 2,4 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 0 | 0 | -90 | 0 | 0 | 0 | 0 | 0 | 20 | 20 | ∞ | 0 | 24a | 3800 | 317 | |
| 14 | 0 | 0 | 0 | 0 | 0 | 1,2 | 0 | 0 | 0 | 1,3 | 2 | 2,4 | 2,6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -10 | 0 | 0 | 0 | 80 | -35 | -35 | 0 | 0 | 0 | 0 | ∞ | ∞ | 2 | 2550 | 232 | |
| 15 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0,9 | 0 | 2,6 | 1,8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 70 | 0 | -40 | -40 | 0 | 0 | 0 | 0 | ∞ | ∞ | 0 | 22 | 2550 | 232 |
| 16 | 0 | 0 | 0 | 0 | 1,3 | 0 | 0 | 0 | 1 | 0 | 2,6 | 2,0 | 2,2 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 60 | 0 | 0 | 0 | 0 | 0 | 30 | 30 | 0 | ∞ | ∞ | 20 | 1840 | 184 |
| 17 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1,2 | 0 | 0 | 2,4 | 2,4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 50 | 0 | 0 | 0 | 0 | -15 | -15 | 0 | 0 | ∞ | ∞ | 22 | 2550 | 232 | |
| 18 | 0 | 0 | 0 | 0 | 1,2 | 0 | 0 | 0 | 0,9 | 0 | 2,4 | 1,8 | 2,2 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 0 | 0 | 0 | 90 | 0 | 0 | 0 | 0 | 0 | -25 | -25 | 0 | ∞ | ∞ | 22a | 2790 | 254 |
| 19 | 0 | 0 | 0 | 0 | 1,1 | 0 | 0 | 0 | 0 | 1,4 | 2,2 | 2,6 | 2,8 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 70 | 0 | 0 | -25 | -25 | 0 | 0 | 0 | ∞ | ∞ | 24 | 3460 | 289 |
| 20 | 0 | 0 | 0 | 0 | 0 | 0 | 1,2 | 0 | 0 | 0 | 2,2 | 2,8 | 2,4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 30 | 30 | 8 | 8 | 0 | 0 | ∞ | ∞ | 20 | 1840 | 184 | |
| 21 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2,4 | 2 | 2,6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 45 | 45 | 0 | 0 | 0 | 0 | ∞ | ∞ | 22 | 2550 | 232 | |
| 22 | 0 | 0 | 0 | 0 | 1,4 | 0 | 0 | 0 | 0 | 1,3 | 2,8 | 2,2 | 2,6 | 0 | 0 | 0 | 0 | 0 | 0 | -15 | 0 | 0 | 0 | 0 | 70 | 20 | 20 | 0 | 0 | 0 | ∞ | ∞ | 22 | 2550 | 232 | | |
| 23 | 0 | 0 | 0 | 0 | 1,1 | 0 | 0 | 0 | 1,1 | 0 | 2,2 | 2,2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | -10 | 0 | 0 | 0 | -55 | 0 | 0 | 0 | 0 | 0 | 30 | 30 | 0 | 0 | 18 | 1290 | 143 | |