

**Параметры источника и нагрузки для выполнения лабораторной работы  
"Исследование линейных двухполюсников в электрических цепях однофазного  
синусоидального тока"**

| № вар | U, В | $\psi_u$ , градус |         | f, Гц   | R <sub>1</sub> , Ом |         | R <sub>k</sub> , Ом | L <sub>k</sub> , мГн | C, мкФ  |
|-------|------|-------------------|---------|---------|---------------------|---------|---------------------|----------------------|---------|
|       |      | Часть 1           | Часть 2 |         | Часть 1             | Часть 2 |                     |                      |         |
| 1     | 6    | 0                 | -150    | 63,662  | 50                  | 35      | 30                  | 43,301               | 59,588  |
| 2     | 6    | 0                 | -120    | 79,577  | 50                  | 25      | 30                  | 50,346               | 33,564  |
| 3     | 6    | 0                 | -60     | 127,324 | 50                  | 20      | 30                  | 44,691               | 14,434  |
| 4     | 6    | 0                 | -45     | 159,155 | 50                  | 35      | 30                  | 51,962               | 7,279   |
| 5     | 6    | 0                 | -30     | 318,31  | 50                  | 20      | 30                  | 41,212               | 17,321  |
| 6     | 6    | 0                 | 150     | 397,887 | 50                  | 20      | 30                  | 6,928                | 6,713   |
| 7     | 6    | 0                 | 120     | 636,62  | 50                  | 20      | 30                  | 6,293                | 2,887   |
| 8     | 6    | 0                 | 60      | 795,775 | 50                  | 25      | 30                  | 7,151                | 1,456   |
| 9     | 9    | 0                 | 45      | 63,662  | 70                  | 15      | 10                  | 43,301               | 61,859  |
| 10    | 9    | 0                 | 30      | 79,577  | 70                  | 15      | 10                  | 54,95                | 34,05   |
| 11    | 9    | 0                 | -150    | 127,324 | 70                  | 15      | 10                  | 7,217                | 10,31   |
| 12    | 9    | 0                 | -120    | 159,155 | 70                  | 15      | 10                  | 8,391                | 5,2     |
| 13    | 9    | 0                 | -60     | 318,31  | 70                  | 15      | 10                  | 5,959                | 12,372  |
| 14    | 9    | 0                 | -45     | 397,887 | 70                  | 15      | 10                  | 6,928                | 6,81    |
| 15    | 9    | 0                 | -30     | 636,62  | 70                  | 15      | 10                  | 6,869                | 2,997   |
| 16    | 9    | 0                 | 150     | 795,775 | 70                  | 15      | 10                  | 1,155                | 1,04    |
| 17    | 12   | 0                 | 120     | 63,662  | 60                  | 15      | 20                  | 41,955               | 72,169  |
| 18    | 12   | 0                 | 60      | 79,577  | 60                  | 15      | 20                  | 47,67                | 39,725  |
| 19    | 12   | 0                 | 45      | 127,324 | 60                  | 30      | 20                  | 43,301               | 17,481  |
| 20    | 12   | 0                 | 30      | 159,155 | 60                  | 30      | 20                  | 54,95                | 9,623   |
| 21    | 12   | 0                 | -150    | 318,31  | 60                  | 5       | 20                  | 4,663                | 8,333   |
| 22    | 12   | 0                 | -120    | 397,887 | 60                  | 5       | 20                  | 5,602                | 4,668   |
| 23    | 12   | 0                 | -60     | 636,62  | 60                  | 5       | 20                  | 5                    | 1,943   |
| 24    | 12   | 0                 | -45     | 795,775 | 60                  | 5       | 20                  | 5,713                | 7,148   |
| 25    | 5    | 0                 | -30     | 63,662  | 20                  | 35      | 30                  | 43,301               | 148,969 |
| 26    | 5    | 0                 | 150     | 79,577  | 20                  | 35      | 30                  | 50,346               | 83,91   |
| 27    | 5    | 0                 | 120     | 127,324 | 20                  | 25      | 30                  | 44,691               | 36,084  |
| 28    | 5    | 0                 | 60      | 159,155 | 20                  | 25      | 30                  | 51,962               | 18,199  |
| 29    | 5    | 0                 | 45      | 318,31  | 20                  | 25      | 30                  | 41,212               | 43,301  |
| 30    | 5    | 0                 | 30      | 397,887 | 20                  | 25      | 30                  | 6,928                | 16,782  |
| 31    | 5    | 0                 | -150    | 636,62  | 20                  | 35      | 30                  | 6,293                | 7,217   |
| 32    | 5    | 0                 | -120    | 795,775 | 20                  | 35      | 30                  | 7,151                | 3,64    |
| 33    | 10   | 0                 | -60     | 63,662  | 40                  | 15      | 10                  | 43,301               | 108,253 |
| 34    | 10   | 0                 | -45     | 79,577  | 40                  | 15      | 10                  | 54,95                | 59,588  |
| 35    | 10   | 0                 | -30     | 127,324 | 40                  | 15      | 10                  | 7,217                | 18,042  |
| 36    | 10   | 0                 | 150     | 159,155 | 40                  | 15      | 10                  | 8,391                | 9,099   |
| 37    | 10   | 0                 | 120     | 318,31  | 40                  | 5       | 10                  | 5,959                | 21,651  |
| 38    | 10   | 0                 | 60      | 397,887 | 40                  | 15      | 10                  | 6,928                | 11,918  |
| 39    | 10   | 0                 | 45      | 636,62  | 40                  | 15      | 10                  | 6,869                | 5,244   |
| 40    | 10   | 0                 | 30      | 795,775 | 40                  | 15      | 10                  | 1,155                | 1,82    |
| 41    | 15   | 0                 | -150    | 63,662  | 30                  | 25      | 20                  | 41,955               | 144,338 |
| 42    | 15   | 0                 | -120    | 79,577  | 30                  | 15      | 20                  | 47,67                | 79,451  |

| № вар | U, В | $\psi$ , градус |         | f, Гц   | R <sub>1</sub> , Ом |         | R <sub>k</sub> , Ом | L <sub>k</sub> , мГн | C, мкФ  |
|-------|------|-----------------|---------|---------|---------------------|---------|---------------------|----------------------|---------|
|       |      | Часть 1         | Часть 2 |         | Часть 1             | Часть 2 |                     |                      |         |
| 43    | 15   | 0               | -60     | 127,324 | 30                  | 25      | 20                  | 43,301               | 34,962  |
| 44    | 15   | 0               | -45     | 159,155 | 30                  | 25      | 20                  | 54,95                | 19,245  |
| 45    | 15   | 0               | -30     | 318,31  | 30                  | 25      | 20                  | 4,663                | 16,667  |
| 46    | 15   | 0               | 150     | 397,887 | 30                  | 15      | 20                  | 5,602                | 9,336   |
| 47    | 15   | 0               | 120     | 636,62  | 30                  | 25      | 20                  | 5                    | 3,886   |
| 48    | 15   | 0               | 60      | 795,775 | 50                  | 15      | 20                  | 5,713                | 8,578   |
| 49    | 4    | 0               | 45      | 63,662  | 10                  | 35      | 40                  | 57,735               | 297,938 |
| 50    | 4    | 0               | 30      | 79,577  | 10                  | 35      | 40                  | 67,128               | 167,821 |
| 51    | 4    | 0               | -150    | 127,324 | 10                  | 35      | 40                  | 59,588               | 72,169  |
| 52    | 4    | 0               | -120    | 159,155 | 10                  | 35      | 40                  | 69,282               | 36,397  |
| 53    | 4    | 0               | -60     | 318,31  | 10                  | 35      | 40                  | 54,95                | 86,603  |
| 54    | 4    | 0               | -45     | 397,887 | 10                  | 25      | 40                  | 9,238                | 33,564  |
| 55    | 4    | 0               | -30     | 636,62  | 10                  | 35      | 40                  | 8,391                | 14,434  |
| 56    | 4    | 0               | 150     | 795,775 | 10                  | 45      | 40                  | 9,534                | 7,279   |
| 57    | 8    | 0               | 120     | 63,662  | 15                  | 30      | 35                  | 151,554              | 288,675 |
| 58    | 8    | 0               | 60      | 79,577  | 20                  | 30      | 35                  | 192,325              | 119,176 |
| 59    | 8    | 0               | 45      | 127,324 | 15                  | 30      | 35                  | 25,259               | 48,113  |
| 60    | 8    | 0               | 30      | 159,155 | 20                  | 30      | 35                  | 29,368               | 18,199  |
| 61    | 8    | 0               | -150    | 318,31  | 15                  | 30      | 35                  | 20,856               | 57,735  |
| 62    | 8    | 0               | -120    | 397,887 | 15                  | 40      | 35                  | 24,249               | 31,78   |
| 63    | 8    | 0               | -60     | 636,62  | 15                  | 30      | 35                  | 24,04                | 13,985  |
| 64    | 8    | 0               | -45     | 795,775 | 15                  | 40      | 35                  | 4,041                | 4,853   |
| 65    | 16   | 0               | -30     | 63,662  | 40                  | 10      | 15                  | 31,466               | 108,253 |
| 66    | 16   | 0               | 150     | 79,577  | 35                  | 20      | 15                  | 35,753               | 68,101  |
| 67    | 16   | 0               | 120     | 127,324 | 35                  | 20      | 15                  | 32,476               | 29,968  |
| 68    | 16   | 0               | 60      | 159,155 | 35                  | 25      | 15                  | 41,212               | 16,496  |
| 69    | 16   | 0               | 45      | 318,31  | 45                  | 10      | 15                  | 3,497                | 11,111  |
| 70    | 16   | 0               | 30      | 397,887 | 35                  | 10      | 15                  | 4,201                | 8,002   |
| 71    | 16   | 0               | -150    | 636,62  | 35                  | 20      | 15                  | 3,75                 | 3,331   |
| 72    | 16   | 0               | -120    | 795,775 | 35                  | 10      | 15                  | 4,284                | 12,254  |
| 73    | 7    | 0               | -60     | 63,662  | 95                  | 10      | 5                   | 7,217                | 31,362  |
| 74    | 7    | 0               | -45     | 79,577  | 95                  | 10      | 5                   | 8,391                | 17,665  |
| 75    | 7    | 0               | -30     | 127,324 | 95                  | 10      | 5                   | 7,448                | 7,597   |
| 76    | 7    | 0               | 150     | 159,155 | 95                  | 10      | 5                   | 8,66                 | 3,831   |
| 77    | 7    | 0               | 120     | 318,31  | 95                  | 10      | 5                   | 6,869                | 9,116   |
| 78    | 7    | 0               | 60      | 397,887 | 95                  | 10      | 5                   | 1,155                | 3,533   |
| 79    | 7    | 0               | 45      | 636,62  | 95                  | 10      | 5                   | 1,049                | 1,519   |
| 80    | 7    | 0               | 30      | 795,775 | 95                  | 10      | 5                   | 1,192                | 0,766   |
| 81    | 14   | 0               | -150    | 63,662  | 75                  | 30      | 25                  | 108,253              | 57,735  |
| 82    | 14   | 0               | -120    | 79,577  | 75                  | 30      | 25                  | 137,375              | 31,78   |
| 83    | 14   | 0               | -60     | 127,324 | 75                  | 30      | 25                  | 18,042               | 9,623   |
| 84    | 14   | 0               | -45     | 159,155 | 75                  | 30      | 25                  | 20,977               | 4,853   |
| 85    | 14   | 0               | -30     | 318,31  | 75                  | 30      | 25                  | 14,897               | 11,547  |
| 86    | 14   | 0               | 150     | 397,887 | 75                  | 30      | 25                  | 17,321               | 6,356   |
| 87    | 14   | 0               | 120     | 636,62  | 75                  | 30      | 25                  | 17,172               | 2,797   |
| 88    | 14   | 0               | 60      | 795,775 | 75                  | 30      | 25                  | 2,887                | 0,971   |

| № вар | U, В | $\psi_{ii}$ , градус |         | f, Гц   | $R_1$ , Ом |         | $R_k$ , Ом | $L_k$ , мГн | C, мкФ  |
|-------|------|----------------------|---------|---------|------------|---------|------------|-------------|---------|
|       |      | Часть 1              | Часть 2 |         | Часть 1    | Часть 2 |            |             |         |
| 89    | 21   | 0                    | 45      | 63,662  | 65         | 40      | 35         | 73,421      | 66,617  |
| 90    | 21   | 0                    | 30      | 79,577  | 65         | 30      | 35         | 83,423      | 36,67   |
| 91    | 21   | 0                    | -150    | 127,324 | 65         | 30      | 35         | 75,777      | 16,137  |
| 92    | 21   | 0                    | -120    | 159,155 | 65         | 30      | 35         | 96,162      | 8,882   |
| 93    | 21   | 0                    | -60     | 318,31  | 65         | 40      | 35         | 8,16        | 7,692   |
| 94    | 21   | 0                    | -45     | 397,887 | 65         | 30      | 35         | 9,803       | 4,309   |
| 95    | 21   | 0                    | -30     | 636,62  | 65         | 30      | 35         | 8,75        | 1,793   |
| 96    | 21   | 0                    | 150     | 795,775 | 65         | 30      | 35         | 9,997       | 6,598   |
| 97    | 18   | 0                    | 120     | 63,662  | 45         | 50      | 55         | 79,386      | 66,209  |
| 98    | 18   | 0                    | 60      | 79,577  | 45         | 50      | 55         | 92,302      | 37,294  |
| 99    | 18   | 0                    | 45      | 127,324 | 45         | 50      | 55         | 81,933      | 16,038  |
| 100   | 18   | 0                    | 30      | 159,155 | 45         | 50      | 55         | 95,263      | 8,088   |
| 101   | 18   | 0                    | -150    | 318,31  | 45         | 50      | 55         | 75,556      | 19,245  |
| 102   | 18   | 0                    | -120    | 397,887 | 45         | 50      | 55         | 12,702      | 7,459   |
| 103   | 18   | 0                    | -60     | 636,62  | 45         | 50      | 55         | 11,538      | 3,208   |
| 104   | 18   | 0                    | -45     | 795,775 | 45         | 50      | 55         | 13,109      | 1,618   |
| 105   | 20   | 0                    | -30     | 63,662  | 40         | 55      | 60         | 259,808     | 108,253 |
| 106   | 20   | 0                    | 150     | 79,577  | 40         | 55      | 60         | 329,699     | 59,588  |
| 107   | 20   | 0                    | 120     | 127,324 | 40         | 55      | 60         | 43,301      | 18,042  |
| 108   | 20   | 0                    | 60      | 159,155 | 40         | 55      | 60         | 50,346      | 9,099   |
| 109   | 20   | 0                    | 45      | 318,31  | 40         | 55      | 60         | 35,753      | 21,651  |
| 110   | 20   | 0                    | 30      | 397,887 | 50         | 55      | 60         | 41,569      | 9,534   |
| 111   | 20   | 0                    | -150    | 636,62  | 40         | 55      | 60         | 41,212      | 5,244   |
| 112   | 20   | 0                    | -120    | 795,775 | 50         | 55      | 60         | 6,928       | 1,456   |
| 113   | 22   | 0                    | -60     | 63,662  | 35         | 60      | 65         | 136,354     | 123,718 |
| 114   | 22   | 0                    | -45     | 79,577  | 35         | 60      | 65         | 154,929     | 68,101  |
| 115   | 22   | 0                    | -30     | 127,324 | 35         | 60      | 65         | 140,729     | 29,968  |
| 116   | 22   | 0                    | 150     | 159,155 | 35         | 60      | 65         | 178,586     | 16,496  |
| 117   | 22   | 0                    | 120     | 318,31  | 35         | 60      | 65         | 15,155      | 14,286  |
| 118   | 22   | 0                    | 60      | 397,887 | 35         | 60      | 65         | 18,205      | 8,002   |
| 119   | 22   | 0                    | 45      | 636,62  | 35         | 60      | 65         | 16,25       | 3,331   |
| 120   | 22   | 0                    | 30      | 795,775 | 35         | 60      | 65         | 18,566      | 12,254  |