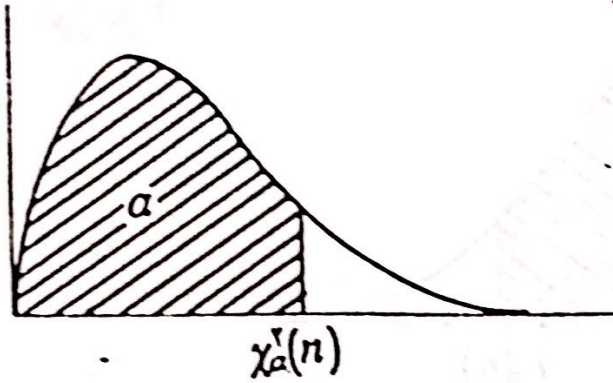
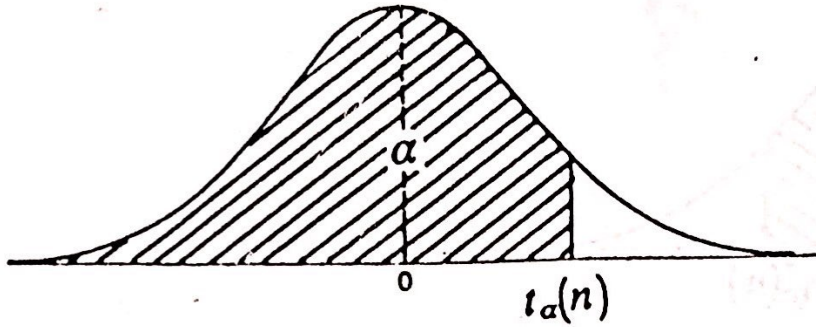


جدول IV : توزیع مربع-کای



| n | $\chi^2_{.995}$ | $\chi^2_{.99}$ | $\chi^2_{.975}$ | $\chi^2_{.95}$ | $\chi^2_{.90}$ | $\chi^2_{.75}$ | $\chi^2_{.50}$ | $\chi^2_{.25}$ | $\chi^2_{.10}$ | $\chi^2_{.05}$ | $\chi^2_{.025}$ | $\chi^2_{.01}$ | $\chi^2_{.005}$ |
|-----|-----------------|----------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|----------------|-----------------|
| 1 | 7.88 | 6.63 | 5.02 | 3.84 | 2.71 | 1.32 | .455 | .102 | .0158 | .0039 | .0010 | .0002 | .0000 |
| 2 | 10.6 | 9.21 | 7.38 | 5.99 | 4.61 | 2.77 | 1.39 | .575 | .211 | .103 | .0506 | .0201 | .0100 |
| 3 | 12.8 | 11.3 | 9.35 | 7.81 | 6.25 | 4.11 | 2.37 | 1.21 | .584 | .352 | .216 | .115 | .072 |
| 4 | 14.9 | 13.3 | 11.1 | 9.49 | 7.78 | 5.39 | 3.36 | 1.92 | 1.06 | .711 | .484 | .297 | .207 |
| 5 | 16.7 | 15.1 | 12.8 | 11.1 | 9.24 | 6.63 | 4.35 | 2.67 | 1.61 | 1.15 | .831 | .554 | .412 |
| 6 | 18.5 | 16.8 | 14.4 | 12.6 | 10.6 | 7.84 | 5.35 | 3.45 | 2.20 | 1.64 | 1.24 | .872 | .676 |
| 7 | 20.3 | 18.5 | 16.0 | 14.1 | 12.0 | 9.04 | 6.35 | 4.25 | 2.83 | 2.17 | 1.69 | 1.24 | .989 |
| 8 | 22.0 | 20.1 | 17.5 | 15.5 | 13.4 | 10.2 | 7.34 | 5.07 | 3.49 | 2.73 | 2.18 | 1.65 | 1.34 |
| 9 | 23.6 | 21.7 | 19.0 | 16.9 | 14.7 | 11.4 | 8.34 | 5.90 | 4.17 | 3.33 | 2.70 | 2.09 | 1.73 |
| 10 | 25.2 | 23.2 | 20.5 | 18.3 | 16.0 | 12.5 | 9.34 | 6.74 | 4.87 | 3.94 | 3.25 | 2.56 | 2.16 |
| 11 | 26.8 | 24.7 | 21.9 | 19.7 | 17.3 | 13.7 | 10.3 | 7.58 | 5.58 | 4.57 | 3.82 | 3.05 | 2.60 |
| 12 | 28.3 | 26.2 | 23.3 | 21.0 | 18.5 | 14.8 | 11.3 | 8.44 | 6.30 | 5.23 | 4.40 | 3.57 | 3.07 |
| 13 | 29.8 | 27.7 | 24.7 | 22.4 | 19.8 | 16.0 | 12.3 | 9.30 | 7.04 | 5.89 | 5.01 | 4.11 | 3.57 |
| 14 | 31.3 | 29.1 | 26.1 | 23.7 | 21.1 | 17.1 | 13.3 | 10.2 | 7.79 | 6.57 | 5.63 | 4.66 | 4.07 |
| 15 | 32.8 | 30.6 | 27.5 | 25.0 | 22.3 | 18.2 | 14.3 | 11.0 | 8.55 | 7.26 | 6.26 | 5.23 | 4.60 |
| 16 | 34.3 | 32.0 | 28.8 | 26.3 | 23.5 | 19.4 | 15.3 | 11.9 | 9.31 | 7.96 | 6.91 | 5.81 | 5.14 |
| 17 | 35.7 | 33.4 | 30.2 | 27.6 | 24.8 | 20.5 | 16.3 | 12.8 | 10.1 | 8.67 | 7.56 | 6.41 | 5.70 |
| 18 | 37.2 | 34.8 | 31.5 | 28.9 | 26.0 | 21.6 | 17.3 | 13.7 | 10.9 | 9.39 | 8.23 | 7.01 | 6.26 |
| 19 | 38.6 | 36.2 | 32.9 | 30.1 | 27.2 | 22.7 | 18.3 | 14.6 | 11.7 | 10.1 | 8.91 | 7.63 | 6.84 |
| 20 | 40.0 | 37.6 | 34.2 | 31.4 | 28.4 | 23.8 | 19.3 | 15.5 | 12.4 | 10.9 | 9.59 | 8.26 | 7.43 |
| 21 | 41.4 | 38.9 | 35.5 | 32.7 | 29.6 | 24.9 | 20.3 | 16.3 | 13.2 | 11.6 | 10.3 | 8.90 | 8.03 |
| 22 | 42.8 | 40.3 | 36.8 | 33.9 | 30.8 | 26.0 | 21.3 | 17.2 | 14.0 | 12.3 | 11.0 | 9.54 | 8.64 |
| 23 | 44.2 | 41.6 | 38.1 | 35.2 | 32.0 | 27.1 | 22.3 | 18.1 | 14.8 | 13.1 | 11.7 | 10.2 | 9.26 |
| 24 | 45.6 | 43.0 | 39.4 | 36.4 | 33.2 | 28.2 | 23.3 | 19.0 | 15.7 | 13.8 | 12.4 | 10.9 | 9.89 |
| 25 | 46.9 | 44.3 | 40.6 | 37.7 | 34.4 | 29.3 | 24.3 | 19.9 | 16.5 | 14.6 | 13.1 | 11.5 | 10.5 |
| 26 | 48.3 | 45.6 | 41.9 | 38.9 | 35.6 | 30.4 | 25.3 | 20.8 | 17.3 | 15.4 | 13.8 | 12.2 | 11.2 |
| 27 | 49.6 | 47.0 | 43.2 | 40.1 | 36.7 | 31.5 | 26.3 | 21.7 | 18.1 | 16.2 | 14.6 | 12.9 | 11.8 |
| 28 | 51.0 | 48.3 | 44.5 | 41.3 | 37.9 | 32.6 | 27.3 | 22.7 | 18.9 | 16.9 | 15.3 | 13.6 | 12.5 |
| 29 | 52.3 | 49.6 | 45.7 | 42.6 | 39.1 | 33.7 | 28.3 | 23.6 | 19.8 | 17.7 | 16.0 | 14.3 | 13.1 |
| 30 | 53.7 | 50.9 | 47.0 | 43.8 | 40.3 | 34.8 | 29.3 | 24.5 | 20.6 | 18.5 | 16.8 | 15.0 | 13.8 |
| 40 | 66.8 | 63.7 | 59.3 | 55.8 | 51.8 | 45.6 | 39.3 | 33.7 | 29.1 | 26.5 | 24.4 | 22.2 | 20.7 |
| 50 | 79.5 | 76.2 | 71.4 | 67.5 | 63.2 | 56.3 | 49.3 | 42.9 | 37.7 | 34.8 | 32.4 | 29.7 | 28.0 |
| 60 | 92.0 | 88.4 | 83.3 | 79.1 | 74.4 | 67.0 | 59.3 | 52.3 | 46.5 | 43.2 | 40.5 | 37.5 | 35.5 |
| 70 | 104.2 | 100.4 | 95.0 | 90.5 | 85.5 | 77.6 | 69.3 | 61.7 | 55.3 | 51.7 | 48.8 | 45.4 | 43.3 |
| 80 | 116.3 | 112.3 | 106.6 | 101.9 | 96.6 | 88.1 | 79.3 | 71.1 | 64.3 | 60.4 | 57.2 | 53.5 | 51.2 |
| 90 | 128.3 | 124.1 | 118.1 | 113.1 | 107.6 | 98.6 | 89.3 | 80.6 | 73.3 | 69.1 | 65.6 | 61.8 | 59.2 |
| 100 | 140.2 | 135.8 | 129.6 | 124.3 | 118.5 | 109.1 | 99.3 | 90.1 | 82.4 | 77.9 | 74.2 | 70.1 | 67.3 |

جدول V : توزیع t



| n | $t_{.995}$ | $t_{.99}$ | $t_{.975}$ | $t_{.95}$ | $t_{.90}$ | $t_{.80}$ | $t_{.75}$ | $t_{.70}$ | $t_{.60}$ | $t_{.55}$ |
|----------|------------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 1 | 63.66 | 31.82 | 12.71 | 6.31 | 3.08 | 1.376 | 1.000 | .727 | .325 | .158 |
| 2 | 9.92 | 6.96 | 4.30 | 2.92 | 1.89 | 1.061 | .816 | .617 | .289 | .142 |
| 3 | 5.84 | 4.54 | 3.18 | 2.35 | 1.64 | .978 | .765 | .584 | .277 | .137 |
| 4 | 4.60 | 3.75 | 2.78 | 2.13 | 1.53 | .941 | .741 | .569 | .271 | .134 |
| 5 | 4.03 | 3.36 | 2.57 | 2.02 | 1.48 | .920 | .727 | .559 | .267 | .132 |
| 6 | 3.71 | 3.14 | 2.45 | 1.94 | 1.44 | .906 | .718 | .553 | .265 | .131 |
| 7 | 3.50 | 3.00 | 2.36 | 1.90 | 1.42 | .896 | .711 | .549 | .263 | .130 |
| 8 | 3.36 | 2.90 | 2.31 | 1.86 | 1.40 | .889 | .706 | .546 | .262 | .130 |
| 9 | 3.25 | 2.82 | 2.26 | 1.83 | 1.38 | .883 | .703 | .543 | .261 | .129 |
| 10 | 3.17 | 2.76 | 2.23 | 1.81 | 1.37 | .879 | .700 | .542 | .260 | .129 |
| 11 | 3.11 | 2.72 | 2.20 | 1.80 | 1.36 | .876 | .697 | .540 | .260 | .129 |
| 12 | 3.06 | 2.68 | 2.18 | 1.78 | 1.36 | .873 | .695 | .539 | .259 | .128 |
| 13 | 3.01 | 2.65 | 2.16 | 1.77 | 1.35 | .870 | .694 | .538 | .259 | .128 |
| 14 | 2.98 | 2.62 | 2.14 | 1.76 | 1.34 | .868 | .692 | .537 | .258 | .128 |
| 15 | 2.95 | 2.60 | 2.13 | 1.75 | 1.34 | .866 | .691 | .536 | .258 | .128 |
| 16 | 2.92 | 2.58 | 2.12 | 1.75 | 1.34 | .865 | .690 | .535 | .258 | .128 |
| 17 | 2.90 | 2.57 | 2.11 | 1.74 | 1.33 | .863 | .689 | .534 | .257 | .128 |
| 18 | 2.88 | 2.55 | 2.10 | 1.73 | 1.33 | .862 | .688 | .534 | .257 | .127 |
| 19 | 2.86 | 2.54 | 2.09 | 1.73 | 1.33 | .861 | .688 | .533 | .257 | .127 |
| 20 | 2.84 | 2.53 | 2.09 | 1.72 | 1.32 | .860 | .687 | .533 | .257 | .127 |
| 21 | 2.83 | 2.52 | 2.08 | 1.72 | 1.32 | .859 | .686 | .532 | .257 | .127 |
| 22 | 2.82 | 2.51 | 2.07 | 1.72 | 1.32 | .858 | .686 | .532 | .256 | .127 |
| 23 | 2.81 | 2.50 | 2.07 | 1.71 | 1.32 | .858 | .685 | .532 | .256 | .127 |
| 24 | 2.80 | 2.49 | 2.06 | 1.71 | 1.32 | .857 | .685 | .531 | .256 | .127 |
| 25 | 2.79 | 2.48 | 2.06 | 1.71 | 1.32 | .856 | .684 | .531 | .256 | .127 |
| 26 | 2.78 | 2.48 | 2.06 | 1.71 | 1.32 | .856 | .684 | .531 | .256 | .127 |
| 27 | 2.77 | 2.47 | 2.05 | 1.70 | 1.31 | .855 | .684 | .531 | .256 | .127 |
| 28 | 2.76 | 2.47 | 2.05 | 1.70 | 1.31 | .855 | .683 | .530 | .256 | .127 |
| 29 | 2.76 | 2.46 | 2.04 | 1.70 | 1.31 | .854 | .683 | .530 | .256 | .127 |
| 30 | 2.75 | 2.46 | 2.04 | 1.70 | 1.31 | .854 | .683 | .530 | .256 | .127 |
| 40 | 2.70 | 2.42 | 2.02 | 1.68 | 1.30 | .851 | .681 | .529 | .255 | .126 |
| 60 | 2.66 | 2.39 | 2.00 | 1.67 | 1.30 | .848 | .679 | .527 | .254 | .126 |
| 120 | 2.62 | 2.36 | 1.98 | 1.66 | 1.29 | .845 | .677 | .526 | .254 | .126 |
| ∞ | 2.58 | 2.33 | 1.96 | 1.645 | 1.28 | .842 | .674 | .524 | .253 | .126 |

جدول ج.۳ نقاط درصد بالایی توزیع F_{ν_1, ν_2}

| $1-\alpha$ | ν_2 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 | 15 | 20 | 30 | 60 | 120 | ∞ |
|------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| 0.90 | | 39.9 | 49.5 | 53.6 | 55.8 | 57.2 | 58.2 | 58.9 | 59.4 | 59.9 | 60.2 | 60.7 | 61.2 | 61.7 | 62.3 | 62.8 | 63.1 | 63.3 |
| 0.95 | | 161 | 200 | 216 | 225 | 230 | 234 | 237 | 239 | 241 | 242 | 244 | 246 | 248 | 250 | 252 | 253 | 254 |
| 0.975 | 1 | 648 | 800 | 864 | 900 | 922 | 937 | 948 | 957 | 963 | 969 | 977 | 985 | 993 | 1,000 | 1,010 | 1,010 | 1,020 |
| 0.99 | | 4,050 | 5,000 | 5,400 | 5,620 | 5,760 | 5,860 | 5,930 | 5,980 | 6,020 | 6,060 | 6,110 | 6,160 | 6,210 | 6,260 | 6,310 | 6,340 | 6,370 |
| 0.90 | | 8.53 | 9.00 | 9.16 | 9.24 | 9.29 | 9.33 | 9.35 | 9.37 | 9.38 | 9.39 | 9.41 | 9.42 | 9.44 | 9.46 | 9.47 | 9.48 | 9.49 |
| 0.95 | | 18.5 | 19.0 | 19.2 | 19.2 | 19.3 | 19.3 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.4 | 19.5 | 19.5 | 19.5 | 19.5 | 19.5 |
| 0.975 | 2 | 38.5 | 39.0 | 39.2 | 39.2 | 39.3 | 39.3 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4 | 39.4 | 39.5 | 39.5 | 39.5 | 39.5 |
| 0.99 | | 98.5 | 99.0 | 99.2 | 99.2 | 99.3 | 99.3 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.4 | 99.5 | 99.5 | 99.5 | 99.5 |
| 0.90 | | 5.54 | 5.46 | 5.39 | 5.34 | 5.31 | 5.28 | 5.27 | 5.25 | 5.24 | 5.23 | 5.22 | 5.20 | 5.18 | 5.17 | 5.15 | 5.14 | 5.13 |
| 0.95 | | 10.1 | 9.55 | 9.28 | 9.12 | 9.01 | 8.94 | 8.89 | 8.85 | 8.81 | 8.79 | 8.74 | 8.70 | 8.66 | 8.62 | 8.57 | 8.55 | 8.53 |
| 0.975 | 3 | 17.4 | 16.0 | 15.4 | 15.1 | 14.9 | 14.7 | 14.6 | 14.5 | 14.5 | 14.4 | 14.3 | 14.3 | 14.2 | 14.1 | 14.0 | 13.9 | 13.9 |
| 0.99 | | 34.1 | 30.8 | 29.5 | 28.7 | 28.2 | 27.9 | 27.7 | 27.5 | 27.3 | 27.2 | 27.1 | 26.9 | 26.7 | 26.5 | 26.3 | 26.2 | 26.1 |
| 0.90 | | 4.54 | 4.32 | 4.19 | 4.11 | 4.05 | 4.01 | 3.98 | 3.95 | 3.93 | 3.92 | 3.90 | 3.87 | 3.84 | 3.82 | 3.79 | 3.78 | 3.76 |
| 0.95 | | 7.71 | 6.94 | 6.59 | 6.39 | 6.26 | 6.16 | 6.09 | 6.04 | 6.00 | 5.96 | 5.91 | 5.86 | 5.80 | 5.75 | 5.69 | 5.66 | 5.63 |
| 0.975 | 4 | 12.2 | 10.6 | 9.98 | 9.60 | 9.36 | 9.20 | 9.07 | 8.98 | 8.90 | 8.84 | 8.75 | 8.66 | 8.56 | 8.46 | 8.36 | 8.31 | 8.26 |
| 0.99 | | 21.2 | 18.0 | 16.7 | 16.0 | 15.5 | 15.2 | 15.0 | 14.8 | 14.7 | 14.5 | 14.4 | 14.2 | 14.0 | 13.8 | 13.7 | 13.6 | 13.5 |
| 0.90 | | 4.06 | 3.78 | 3.62 | 3.52 | 3.45 | 3.40 | 3.37 | 3.34 | 3.32 | 3.30 | 3.27 | 3.24 | 3.21 | 3.17 | 3.14 | 3.12 | 3.11 |
| 0.95 | | 6.61 | 5.79 | 5.41 | 5.19 | 5.05 | 4.95 | 4.88 | 4.82 | 4.77 | 4.74 | 4.68 | 4.62 | 4.56 | 4.50 | 4.43 | 4.40 | 4.37 |
| 0.975 | 5 | 10.0 | 8.43 | 7.76 | 7.39 | 7.15 | 6.98 | 6.85 | 6.76 | 6.68 | 6.62 | 6.52 | 6.43 | 6.33 | 6.23 | 6.12 | 6.07 | 6.02 |
| 0.99 | | 16.3 | 13.3 | 12.1 | 11.4 | 11.0 | 10.7 | 10.5 | 10.3 | 10.2 | 10.1 | 9.89 | 9.72 | 9.55 | 9.38 | 9.20 | 9.11 | 9.02 |
| 0.90 | | 3.78 | 3.46 | 3.29 | 3.18 | 3.11 | 3.05 | 3.01 | 2.98 | 2.96 | 2.94 | 2.90 | 2.87 | 2.84 | 2.80 | 2.76 | 2.74 | 2.72 |
| 0.95 | | 5.99 | 5.14 | 4.76 | 4.53 | 4.39 | 4.28 | 4.21 | 4.15 | 4.10 | 4.06 | 4.00 | 3.94 | 3.87 | 3.81 | 3.74 | 3.70 | 3.67 |
| 0.975 | 6 | 8.81 | 7.26 | 6.60 | 6.23 | 5.99 | 5.82 | 5.70 | 5.60 | 5.52 | 5.46 | 5.37 | 5.27 | 5.17 | 5.07 | 4.96 | 4.90 | 4.85 |
| 0.99 | | 13.7 | 10.9 | 9.78 | 9.15 | 8.75 | 8.47 | 8.26 | 8.10 | 7.98 | 7.87 | 7.72 | 7.56 | 7.40 | 7.23 | 7.06 | 6.97 | 6.88 |
| 0.90 | | 3.59 | 3.26 | 3.07 | 2.96 | 2.88 | 2.83 | 2.78 | 2.75 | 2.72 | 2.70 | 2.67 | 2.63 | 2.59 | 2.56 | 2.51 | 2.49 | 2.47 |
| 0.95 | | 5.59 | 4.74 | 4.35 | 4.12 | 3.97 | 3.87 | 3.79 | 3.73 | 3.68 | 3.64 | 3.57 | 3.51 | 3.44 | 3.38 | 3.30 | 3.27 | 3.23 |
| 0.975 | 7 | 8.07 | 6.54 | 5.89 | 5.52 | 5.29 | 5.12 | 4.99 | 4.90 | 4.82 | 4.76 | 4.67 | 4.57 | 4.47 | 4.36 | 4.25 | 4.20 | 4.14 |
| 0.99 | | 12.2 | 9.55 | 8.45 | 7.85 | 7.46 | 7.19 | 6.99 | 6.84 | 6.72 | 6.62 | 6.47 | 6.31 | 6.16 | 5.99 | 5.82 | 5.74 | 5.65 |
| 0.90 | | 3.46 | 3.11 | 2.92 | 2.81 | 2.73 | 2.67 | 2.62 | 2.59 | 2.56 | 2.54 | 2.50 | 2.46 | 2.42 | 2.38 | 2.34 | 2.31 | 2.29 |
| 0.95 | | 5.32 | 4.46 | 4.07 | 3.84 | 3.69 | 3.58 | 3.50 | 3.44 | 3.39 | 3.35 | 3.28 | 3.22 | 3.15 | 3.08 | 3.01 | 2.97 | 2.93 |
| 0.975 | 8 | 7.57 | 6.06 | 5.42 | 5.05 | 4.82 | 4.65 | 4.53 | 4.43 | 4.36 | 4.30 | 4.20 | 4.10 | 4.00 | 3.89 | 3.78 | 3.73 | 3.67 |
| 0.99 | | 11.3 | 8.65 | 7.59 | 7.01 | 6.63 | 6.37 | 6.18 | 6.03 | 5.91 | 5.81 | 5.67 | 5.52 | 5.36 | 5.20 | 5.03 | 4.95 | 4.86 |

$F_{10,12,0.025} = 1/F_{12,10,0.975} = 1/(3.37)$

$F_{10,12,0.975}$

| | | | | | | | | | | | | | | | | | | |
|-------|----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 0.90 | | 3.36 | 3.01 | 2.81 | 2.69 | 2.61 | 2.55 | 2.51 | 2.47 | 2.44 | 2.42 | 2.38 | 2.34 | 2.30 | 2.25 | 2.21 | 2.18 | 2.16 |
| 0.95 | | 5.12 | 4.26 | 3.86 | 3.63 | 3.48 | 3.37 | 3.29 | 3.23 | 3.11 | 3.14 | 3.07 | 3.01 | 2.94 | 2.86 | 2.79 | 2.75 | 2.71 |
| 0.975 | 9 | 7.21 | 5.71 | 5.08 | 4.72 | 4.48 | 4.32 | 4.20 | 4.10 | 4.03 | 3.96 | 3.87 | 3.77 | 3.67 | 3.56 | 3.45 | 3.39 | 3.33 |
| 0.99 | | 10.6 | 8.02 | 6.99 | 6.42 | 6.06 | 5.80 | 5.61 | 5.47 | 5.35 | 5.26 | 5.11 | 4.95 | 4.81 | 4.65 | 4.48 | 4.40 | 4.31 |
| 0.90 | | 3.29 | 2.92 | 2.73 | 2.61 | 2.52 | 2.46 | 2.41 | 2.38 | 2.35 | 2.32 | 2.28 | 2.24 | 2.20 | 2.15 | 2.11 | 2.08 | 2.06 |
| 0.95 | | 4.96 | 4.10 | 3.71 | 3.48 | 3.33 | 3.22 | 3.14 | 3.07 | 3.02 | 2.98 | 2.91 | 2.84 | 2.77 | 2.70 | 2.62 | 2.58 | 2.54 |
| 0.975 | 10 | 6.94 | 5.46 | 4.83 | 4.47 | 4.24 | 4.07 | 3.95 | 3.85 | 3.78 | 3.72 | 3.62 | 3.52 | 3.42 | 3.31 | 3.20 | 3.14 | 3.08 |
| 0.99 | | 10.0 | 7.56 | 6.55 | 5.99 | 5.64 | 5.39 | 5.20 | 5.06 | 4.94 | 4.85 | 4.71 | 4.56 | 4.41 | 4.25 | 4.08 | 4.00 | 3.91 |
| 0.90 | | 3.18 | 2.81 | 2.61 | 2.48 | 2.39 | 2.33 | 2.28 | 2.24 | 2.21 | 2.19 | 2.15 | 2.10 | 2.06 | 2.01 | 1.96 | 1.93 | 1.90 |
| 0.95 | | 4.75 | 3.89 | 3.49 | 3.26 | 3.11 | 3.00 | 2.91 | 2.85 | 2.80 | 2.75 | 2.69 | 2.62 | 2.54 | 2.47 | 2.38 | 2.34 | 2.30 |
| 0.975 | 12 | 6.55 | 5.10 | 4.47 | 4.12 | 3.89 | 3.73 | 3.61 | 3.51 | 3.44 | 3.37 | 3.28 | 3.18 | 3.07 | 2.96 | 2.85 | 2.79 | 2.72 |
| 0.99 | | 9.33 | 6.93 | 5.95 | 5.41 | 5.06 | 4.82 | 4.64 | 4.50 | 4.39 | 4.30 | 4.16 | 4.01 | 3.86 | 3.70 | 3.54 | 3.45 | 3.36 |
| 0.90 | | 3.07 | 2.70 | 2.49 | 2.36 | 2.27 | 2.21 | 2.16 | 2.12 | 2.09 | 2.06 | 2.02 | 1.97 | 1.92 | 1.87 | 1.82 | 1.79 | 1.76 |
| 0.95 | | 4.54 | 3.68 | 3.29 | 3.06 | 2.90 | 2.79 | 2.71 | 2.64 | 2.59 | 2.54 | 2.48 | 2.40 | 2.33 | 2.25 | 2.16 | 2.11 | 2.07 |
| 0.975 | 15 | 6.20 | 4.77 | 4.15 | 3.80 | 3.58 | 3.41 | 3.29 | 3.20 | 3.12 | 3.06 | 2.96 | 2.86 | 2.76 | 2.64 | 2.52 | 2.46 | 2.40 |
| 0.99 | | 8.68 | 6.36 | 5.42 | 4.89 | 4.56 | 4.32 | 4.14 | 4.00 | 3.89 | 3.80 | 3.67 | 3.52 | 3.37 | 3.21 | 3.05 | 2.96 | 2.87 |
| 0.90 | | 2.97 | 2.59 | 2.38 | 2.25 | 2.16 | 2.09 | 2.04 | 2.00 | 1.96 | 1.94 | 1.89 | 1.84 | 1.79 | 1.74 | 1.68 | 1.64 | 1.61 |
| 0.95 | | 4.35 | 3.49 | 3.10 | 2.87 | 2.71 | 2.60 | 2.51 | 2.45 | 2.39 | 2.35 | 2.28 | 2.20 | 2.12 | 2.04 | 1.95 | 1.90 | 1.84 |
| 0.975 | 20 | 5.87 | 4.46 | 3.86 | 3.51 | 3.29 | 3.13 | 3.01 | 2.91 | 2.84 | 2.77 | 2.68 | 2.57 | 2.46 | 2.35 | 2.22 | 2.16 | 2.09 |
| 0.99 | | 8.10 | 5.85 | 4.94 | 4.43 | 4.10 | 3.87 | 3.70 | 3.56 | 3.46 | 3.37 | 3.23 | 3.09 | 2.94 | 2.78 | 2.61 | 2.52 | 2.42 |
| 0.90 | | 2.88 | 2.49 | 2.28 | 2.14 | 2.05 | 1.98 | 1.93 | 1.88 | 1.85 | 1.82 | 1.77 | 1.72 | 1.67 | 1.61 | 1.54 | 1.50 | 1.46 |
| 0.95 | | 4.17 | 3.32 | 2.92 | 2.69 | 2.53 | 2.42 | 2.33 | 2.27 | 2.21 | 2.16 | 2.09 | 2.01 | 1.93 | 1.84 | 1.74 | 1.68 | 1.62 |
| 0.975 | 30 | 5.57 | 4.18 | 3.59 | 3.25 | 3.03 | 2.87 | 2.75 | 2.65 | 2.57 | 2.51 | 2.41 | 2.31 | 2.20 | 2.07 | 1.94 | 1.87 | 1.79 |
| 0.99 | | 7.56 | 5.39 | 4.51 | 4.02 | 3.70 | 3.47 | 3.30 | 3.17 | 3.07 | 2.98 | 2.84 | 2.70 | 2.55 | 2.39 | 2.21 | 2.11 | 2.01 |
| 0.90 | | 2.79 | 2.39 | 2.18 | 2.04 | 1.95 | 1.87 | 1.82 | 1.77 | 1.74 | 1.71 | 1.66 | 1.60 | 1.54 | 1.48 | 1.40 | 1.35 | 1.29 |
| 0.95 | | 4.00 | 3.15 | 2.76 | 2.53 | 2.37 | 2.25 | 2.17 | 2.10 | 2.04 | 1.99 | 1.92 | 1.84 | 1.75 | 1.65 | 1.53 | 1.47 | 1.39 |
| 0.975 | 60 | 5.29 | 3.93 | 3.34 | 3.01 | 2.79 | 2.63 | 2.51 | 2.41 | 2.33 | 2.27 | 2.17 | 2.06 | 1.94 | 1.82 | 1.67 | 1.58 | 1.48 |
| 0.99 | | 7.08 | 4.98 | 4.13 | 3.65 | 3.34 | 3.12 | 2.95 | 2.82 | 2.72 | 2.63 | 2.50 | 2.35 | 2.20 | 2.03 | 1.84 | 1.73 | 1.60 |
| 0.90 | | 2.75 | 2.35 | 2.13 | 1.99 | 1.90 | 1.82 | 1.77 | 1.72 | 1.68 | 1.65 | 1.60 | 1.54 | 1.48 | 1.41 | 1.32 | 1.26 | 1.19 |
| 0.95 | | 3.92 | 3.07 | 2.68 | 2.45 | 2.29 | 2.18 | 2.09 | 2.02 | 1.96 | 1.91 | 1.83 | 1.75 | 1.66 | 1.55 | 1.43 | 1.35 | 1.25 |
| 0.975 | 120 | 5.15 | 3.80 | 3.23 | 2.89 | 2.67 | 2.52 | 2.39 | 2.30 | 2.22 | 2.16 | 2.05 | 1.94 | 1.82 | 1.69 | 1.53 | 1.43 | 1.31 |
| 0.99 | | 6.85 | 4.79 | 3.95 | 3.48 | 3.17 | 2.96 | 2.79 | 2.66 | 2.56 | 2.47 | 2.34 | 2.19 | 2.03 | 1.86 | 1.66 | 1.53 | 1.38 |
| 0.90 | | 2.71 | 2.30 | 2.08 | 1.94 | 1.85 | 1.77 | 1.72 | 1.67 | 1.63 | 1.60 | 1.55 | 1.49 | 1.42 | 1.34 | 1.24 | 1.17 | 1.00 |
| 0.95 | | 3.84 | 3.00 | 2.60 | 2.37 | 2.21 | 2.10 | 2.01 | 1.94 | 1.88 | 1.83 | 1.75 | 1.67 | 1.57 | 1.46 | 1.32 | 1.22 | 1.00 |
| 0.975 | ∞ | 5.02 | 3.69 | 3.12 | 2.79 | 2.57 | 2.41 | 2.29 | 2.19 | 2.11 | 2.05 | 1.94 | 1.83 | 1.71 | 1.57 | 1.39 | 1.27 | 1.00 |
| 0.99 | | 6.63 | 4.61 | 3.78 | 3.32 | 3.02 | 2.80 | 2.64 | 2.51 | 2.41 | 2.32 | 2.18 | 2.04 | 1.88 | 1.70 | 1.47 | 1.32 | 1.00 |

خلاصه جدول مرینگتن^۱ و نامسن (۱۹۴۳) که با کسب اجازه محبت آمیز مؤلف و ناشر بیومتریکا در این کتاب آمده است.

Values of Grubbs Statistic (G)

| Number of Observations n | Confidence Level (%) | | | | | |
|--------------------------------|----------------------|-------|-------|-------|-------|-------|
| | 99.9 | 99.5 | 99 | 97.5 | 95 | 90 |
| 3 | 1.155 | 1.155 | 1.155 | 1.155 | 1.153 | 1.148 |
| 4 | 1.499 | 1.496 | 1.492 | 1.481 | 1.463 | 1.425 |
| 5 | 1.780 | 1.764 | 1.749 | 1.715 | 1.672 | 1.602 |
| 6 | 2.011 | 1.973 | 1.944 | 1.887 | 1.822 | 1.729 |
| 7 | 2.201 | 2.139 | 2.097 | 2.020 | 1.938 | 1.828 |
| 8 | 2.358 | 2.274 | 2.221 | 2.126 | 2.032 | 1.909 |
| 9 | 2.492 | 2.387 | 2.323 | 2.215 | 2.110 | 1.977 |
| 10 | 2.606 | 2.482 | 2.410 | 2.290 | 2.176 | 2.036 |
| 11 | 2.705 | 2.564 | 2.485 | 2.355 | 2.234 | 2.088 |
| 12 | 2.791 | 2.636 | 2.550 | 2.412 | 2.285 | 2.134 |
| 13 | 2.867 | 2.699 | 2.607 | 2.462 | 2.331 | 2.175 |
| 14 | 2.935 | 2.755 | 2.659 | 2.507 | 2.371 | 2.213 |
| 15 | 2.997 | 2.806 | 2.705 | 2.549 | 2.409 | 2.247 |
| 16 | 3.052 | 2.852 | 2.747 | 2.585 | 2.443 | 2.279 |
| 17 | 3.103 | 2.894 | 2.785 | 2.620 | 2.475 | 2.309 |
| 18 | 3.149 | 2.932 | 2.821 | 2.651 | 2.504 | 2.335 |
| 19 | 3.191 | 2.968 | 2.854 | 2.681 | 2.532 | 2.361 |
| 20 | 3.230 | 3.001 | 2.884 | 2.709 | 2.557 | 2.385 |
| 30 | 3.507 | 3.236 | 3.103 | 2.908 | 2.745 | 2.563 |
| 40 | 3.673 | 3.381 | 3.240 | 3.036 | 2.866 | 2.682 |
| 50 | 3.789 | 3.483 | 3.336 | 3.128 | 2.956 | 2.768 |
| 60 | 3.874 | 3.560 | 3.411 | 3.199 | 3.025 | 2.837 |
| 70 | 3.942 | 3.622 | 3.471 | 3.257 | 3.082 | 2.893 |