

| Right tail probability    |     | 0.10    | 0.05    | 0.025   | 0.01    | 0.005   |
|---------------------------|-----|---------|---------|---------|---------|---------|
| <b>Table X</b>            | df  |         |         |         |         |         |
| Values of $\chi^2_\alpha$ | 1   | 2.706   | 3.841   | 5.024   | 6.635   | 7.879   |
|                           | 2   | 4.605   | 5.991   | 7.378   | 9.210   | 10.597  |
|                           | 3   | 6.251   | 7.815   | 9.348   | 11.345  | 12.838  |
|                           | 4   | 7.779   | 9.488   | 11.143  | 13.277  | 14.860  |
|                           | 5   | 9.236   | 11.070  | 12.833  | 15.086  | 16.750  |
|                           | 6   | 10.645  | 12.592  | 14.449  | 16.812  | 18.548  |
|                           | 7   | 12.017  | 14.067  | 16.013  | 18.475  | 20.278  |
|                           | 8   | 13.362  | 15.507  | 17.535  | 20.090  | 21.955  |
|                           | 9   | 14.684  | 16.919  | 19.023  | 21.666  | 23.589  |
|                           | 10  | 15.987  | 18.307  | 20.483  | 23.209  | 25.188  |
|                           | 11  | 17.275  | 19.675  | 21.920  | 24.725  | 26.757  |
|                           | 12  | 18.549  | 21.026  | 23.337  | 26.217  | 28.300  |
|                           | 13  | 19.812  | 22.362  | 24.736  | 27.688  | 29.819  |
|                           | 14  | 21.064  | 23.685  | 26.119  | 29.141  | 31.319  |
|                           | 15  | 22.307  | 24.996  | 27.488  | 30.578  | 32.801  |
|                           | 16  | 23.542  | 26.296  | 28.845  | 32.000  | 34.267  |
|                           | 17  | 24.769  | 27.587  | 30.191  | 33.409  | 35.718  |
|                           | 18  | 25.989  | 28.869  | 31.526  | 34.805  | 37.156  |
|                           | 19  | 27.204  | 30.143  | 32.852  | 36.191  | 38.582  |
|                           | 20  | 28.412  | 31.410  | 34.170  | 37.566  | 39.997  |
|                           | 21  | 29.615  | 32.671  | 35.479  | 38.932  | 41.401  |
|                           | 22  | 30.813  | 33.924  | 36.781  | 40.290  | 42.796  |
|                           | 23  | 32.007  | 35.172  | 38.076  | 41.638  | 44.181  |
|                           | 24  | 33.196  | 36.415  | 39.364  | 42.980  | 45.559  |
|                           | 25  | 34.382  | 37.653  | 40.647  | 44.314  | 46.928  |
|                           | 26  | 35.563  | 38.885  | 41.923  | 45.642  | 48.290  |
|                           | 27  | 36.741  | 40.113  | 43.195  | 46.963  | 49.645  |
|                           | 28  | 37.916  | 41.337  | 44.461  | 48.278  | 50.994  |
|                           | 29  | 39.087  | 42.557  | 45.722  | 49.588  | 52.336  |
|                           | 30  | 40.256  | 43.773  | 46.979  | 50.892  | 53.672  |
|                           | 40  | 51.805  | 55.759  | 59.342  | 63.691  | 66.767  |
|                           | 50  | 63.167  | 67.505  | 71.420  | 76.154  | 79.490  |
|                           | 60  | 74.397  | 79.082  | 83.298  | 88.381  | 91.955  |
|                           | 70  | 85.527  | 90.531  | 95.023  | 100.424 | 104.213 |
|                           | 80  | 96.578  | 101.879 | 106.628 | 112.328 | 116.320 |
|                           | 90  | 107.565 | 113.145 | 118.135 | 124.115 | 128.296 |
|                           | 100 | 118.499 | 124.343 | 129.563 | 135.811 | 140.177 |

