

|                          |          | 0.20  | 0.10  | 0.05   | 0.02   | 0.01   |          |
|--------------------------|----------|-------|-------|--------|--------|--------|----------|
| Two-tail probability     |          |       |       |        |        |        |          |
| One-tail probability     |          | 0.10  | 0.05  | 0.025  | 0.01   | 0.005  |          |
| <b>Table T</b>           |          |       |       |        |        |        |          |
| Values of $t_{\alpha}$   |          |       |       |        |        |        |          |
|                          | df       |       |       |        |        |        | df       |
|                          | 1        | 3.078 | 6.314 | 12.706 | 31.821 | 63.657 | 1        |
|                          | 2        | 1.886 | 2.920 | 4.303  | 6.965  | 9.925  | 2        |
|                          | 3        | 1.638 | 2.353 | 3.182  | 4.541  | 5.841  | 3        |
|                          | 4        | 1.533 | 2.132 | 2.776  | 3.747  | 4.604  | 4        |
|                          | 5        | 1.476 | 2.015 | 2.571  | 3.365  | 4.032  | 5        |
|                          | 6        | 1.440 | 1.943 | 2.447  | 3.143  | 3.707  | 6        |
|                          | 7        | 1.415 | 1.895 | 2.365  | 2.998  | 3.499  | 7        |
|                          | 8        | 1.397 | 1.860 | 2.306  | 2.896  | 3.355  | 8        |
|                          | 9        | 1.383 | 1.833 | 2.262  | 2.821  | 3.250  | 9        |
|                          | 10       | 1.372 | 1.812 | 2.228  | 2.764  | 3.169  | 10       |
|                          | 11       | 1.363 | 1.796 | 2.201  | 2.718  | 3.106  | 11       |
|                          | 12       | 1.356 | 1.782 | 2.179  | 2.681  | 3.055  | 12       |
|                          | 13       | 1.350 | 1.771 | 2.160  | 2.650  | 3.012  | 13       |
|                          | 14       | 1.345 | 1.761 | 2.145  | 2.624  | 2.977  | 14       |
|                          | 15       | 1.341 | 1.753 | 2.131  | 2.602  | 2.947  | 15       |
|                          | 16       | 1.337 | 1.746 | 2.120  | 2.583  | 2.921  | 16       |
|                          | 17       | 1.333 | 1.740 | 2.110  | 2.567  | 2.898  | 17       |
|                          | 18       | 1.330 | 1.734 | 2.101  | 2.552  | 2.878  | 18       |
|                          | 19       | 1.328 | 1.729 | 2.093  | 2.539  | 2.861  | 19       |
|                          | 20       | 1.325 | 1.725 | 2.086  | 2.528  | 2.845  | 20       |
|                          | 21       | 1.323 | 1.721 | 2.080  | 2.518  | 2.831  | 21       |
|                          | 22       | 1.321 | 1.717 | 2.074  | 2.508  | 2.819  | 22       |
|                          | 23       | 1.319 | 1.714 | 2.069  | 2.500  | 2.807  | 23       |
|                          | 24       | 1.318 | 1.711 | 2.064  | 2.492  | 2.797  | 24       |
|                          | 25       | 1.316 | 1.708 | 2.060  | 2.485  | 2.787  | 25       |
|                          | 26       | 1.315 | 1.706 | 2.056  | 2.479  | 2.779  | 26       |
|                          | 27       | 1.314 | 1.703 | 2.052  | 2.473  | 2.771  | 27       |
|                          | 28       | 1.313 | 1.701 | 2.048  | 2.467  | 2.763  | 28       |
|                          | 29       | 1.311 | 1.699 | 2.045  | 2.462  | 2.756  | 29       |
|                          | 30       | 1.310 | 1.697 | 2.042  | 2.457  | 2.750  | 30       |
|                          | 32       | 1.309 | 1.694 | 2.037  | 2.449  | 2.738  | 32       |
|                          | 35       | 1.306 | 1.690 | 2.030  | 2.438  | 2.725  | 35       |
|                          | 40       | 1.303 | 1.684 | 2.021  | 2.423  | 2.704  | 40       |
|                          | 45       | 1.301 | 1.679 | 2.014  | 2.412  | 2.690  | 45       |
|                          | 50       | 1.299 | 1.676 | 2.009  | 2.403  | 2.678  | 50       |
|                          | 60       | 1.296 | 1.671 | 2.000  | 2.390  | 2.660  | 60       |
|                          | 75       | 1.293 | 1.665 | 1.992  | 2.377  | 2.643  | 75       |
|                          | 100      | 1.290 | 1.660 | 1.984  | 2.364  | 2.626  | 100      |
|                          | 120      | 1.289 | 1.658 | 1.980  | 2.358  | 2.617  | 120      |
|                          | 140      | 1.288 | 1.656 | 1.977  | 2.353  | 2.611  | 140      |
|                          | 180      | 1.286 | 1.653 | 1.973  | 2.347  | 2.603  | 180      |
|                          | 250      | 1.285 | 1.651 | 1.969  | 2.341  | 2.596  | 250      |
|                          | 400      | 1.284 | 1.649 | 1.966  | 2.336  | 2.588  | 400      |
|                          | 1000     | 1.282 | 1.646 | 1.962  | 2.330  | 2.581  | 1000     |
|                          | $\infty$ | 1.282 | 1.645 | 1.960  | 2.326  | 2.576  | $\infty$ |
| <b>Confidence levels</b> |          | 80%   | 90%   | 95%    | 98%    | 99%    |          |

