

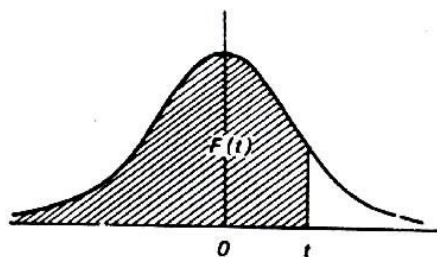
Tab. III. Sumačná (distribučná) funkcia

$$F(t) = \frac{1}{\sqrt{2\pi}} \int_{-\infty}^t e^{-\frac{t^2}{2}} dt = \frac{1}{2} + \frac{1}{2} \Phi(t)$$

(normálne rozdelenie pravdepodobnosti)

$$t = \frac{\varepsilon}{\sigma} \quad \text{alebo} \quad t = \frac{v}{\sigma_v}$$

Hodnoty dávajú teoretické kumulatívne pravdepodobnosti chýb (odchýlok) od $-\infty$ do t -násobku strednej kvadratickej chyby (opravy). Označenia n^x znamenajú $n \cdot 10^{-x}$.



| t | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|-----|-----------|------|------|------|------|------|------|------|------|------|
| —3, | 0.00 1350 | 0968 | 0687 | 0483 | 0337 | 0233 | 0159 | 0108 | 0073 | 0048 |
| —2, | 0.0 2275 | 1786 | 1390 | 1072 | 0820 | 0621 | 0466 | 0347 | 0256 | 0187 |
| —1, | 0.1587 | 1357 | 1151 | 0968 | 0803 | 0668 | 0548 | 0446 | 0359 | 0297 |
| —0, | 0.5000 | 4602 | 4207 | 3821 | 3446 | 3085 | 2742 | 2420 | 2119 | 1841 |
| +0, | 0.5000 | 5398 | 5793 | 6179 | 6554 | 6915 | 7258 | 7580 | 7881 | 8159 |
| +1, | 0.8413 | 8643 | 8849 | 9032 | 9192 | 9332 | 9452 | 9554 | 9641 | 9713 |
| +2, | 0.9 7725 | 8214 | 8610 | 8923 | 9180 | 9379 | 9534 | 9653 | 9744 | 9813 |
| +3, | 0.99 8650 | 9032 | 9313 | 9517 | 9663 | 9767 | 9841 | 9892 | 9927 | 9952 |

| t | —4 | —5 | —6 | —7 | —8 | —9 | $-\infty$ |
|--------|-----------|-----------|------------|------------|------------|------------|-----------|
| $F(t)$ | 32^{-8} | 29^{-8} | 10^{-10} | 13^{-13} | 62^{-17} | 11^{-20} | 0 |

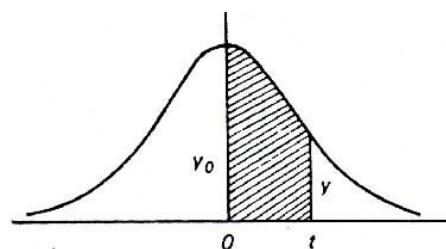
| t | +4 | +5 | +6 | +7 | +8 | +9 | ∞ |
|--------|---------------|---------------|----------------|----------------|----------------|----------------|----------|
| $F(t)$ | $1 - 32^{-8}$ | $1 - 29^{-8}$ | $1 - 10^{-10}$ | $1 - 13^{-13}$ | $1 - 62^{-17}$ | $1 - 11^{-20}$ | 1 |

Tab. IV. Normálne rozdelenie

$$\text{Hodnoty funkcie } G(t) = \frac{1}{2} \Phi(t) = \frac{1}{\sqrt{2\pi}} \int_0^t e^{-\frac{t^2}{2}} dt.$$

$$t = \frac{\varepsilon}{\sigma} \quad \text{alebo} \quad t = \frac{v}{\sigma_v},$$

$$\sigma^2 = E(\varepsilon - \bar{c})^2, \quad \sigma_v^2 = E(v^2).$$



Tabuľky udávajú pravdepodobnosť výskytu chyby (opravy) medzi 0 až t -násobkom strednej (kvadratickej chyby (opravy)). Označenia v tabuľke n^x znamenajú $n \cdot 10^x$.

| t | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|-----|-----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 0,0 | 0, 0000 | 0040 | 0080 | 0120 | 0160 | 0199 | 0239 | 0279 | 0319 | 0359 |
| 0,1 | 0398 | 0438 | 0478 | 0517 | 0557 | 0596 | 0636 | 0675 | 0714 | 0753 |
| 0,2 | 0793 | 0832 | 0871 | 0910 | 0948 | 0987 | 1026 | 1064 | 1103 | 1141 |
| 0,3 | 1179 | 1217 | 1255 | 1293 | 1331 | 1368 | 1406 | 1443 | 1480 | 1517 |
| 0,4 | 1554 | 1591 | 1628 | 1664 | 1700 | 1736 | 1772 | 1808 | 1844 | 1879 |
| 0,5 | 0, 1915 | 1950 | 1985 | 2019 | 2054 | 2088 | 2123 | 2157 | 2190 | 2224 |
| 0,6 | 2257 | 2291 | 2324 | 2357 | 2389 | 2422 | 2454 | 2486 | 2517 | 2549 |
| 0,7 | 2580 | 2611 | 2642 | 2673 | 2704 | 2734 | 2764 | 2794 | 2823 | 2852 |
| 0,8 | 2881 | 2910 | 2939 | 2967 | 2995 | 3023 | 3051 | 3078 | 3106 | 3133 |
| 0,9 | 3159 | 3186 | 3212 | 3238 | 3264 | 3289 | 3315 | 3340 | 3365 | 3389 |
| 1,0 | 0, 3413 | 3438 | 3461 | 3485 | 3508 | 3531 | 3554 | 3577 | 3599 | 3621 |
| 1,1 | 3643 | 3665 | 3686 | 3708 | 3729 | 3749 | 3770 | 3790 | 3810 | 3830 |
| 1,2 | 3849 | 3869 | 3888 | 3907 | 3925 | 3944 | 3962 | 3980 | 3997 | 4015 |
| 1,3 | 4032 | 4049 | 4066 | 4082 | 4099 | 4115 | 4131 | 4147 | 4162 | 4177 |
| 1,4 | 4192 | 4207 | 4222 | 4236 | 4251 | 4265 | 4279 | 4292 | 4306 | 4319 |
| 1,5 | 0, 4332 | 4345 | 4357 | 4370 | 4382 | 4394 | 4406 | 4418 | 4429 | 4441 |
| 1,6 | 4452 | 4463 | 4474 | 4484 | 4495 | 4505 | 4515 | 4525 | 4535 | 4545 |
| 1,7 | 4554 | 4564 | 4573 | 4582 | 4591 | 4599 | 4608 | 4616 | 4625 | 4633 |
| 1,8 | 4641 | 4649 | 4656 | 4664 | 4671 | 4678 | 4686 | 4693 | 4699 | 4706 |
| 1,9 | 4713 | 4719 | 4726 | 4732 | 4738 | 4744 | 4750 | 4756 | 4761 | 4767 |
| 2,0 | 0, 4772 | 4778 | 4783 | 4788 | 4793 | 4798 | 4803 | 4808 | 4812 | 4817 |
| 2,1 | 4821 | 4826 | 4830 | 4834 | 4838 | 4842 | 4846 | 4850 | 4854 | 4857 |
| 2,2 | 4861 | 4864 | 4868 | 4871 | 4875 | 4878 | 4881 | 4884 | 4887 | 4890 |
| 2,3 | 4893 | 4896 | 4898 | 4901 | 4904 | 4906 | 4909 | 4911 | 4913 | 4916 |
| 2,4 | 4918 | 4920 | 4922 | 4925 | 4927 | 4929 | 4931 | 4932 | 4934 | 4936 |
| 2,5 | 0,4 9379 | 9396 | 9413 | 9430 | 9446 | 9461 | 9477 | 9492 | 9506 | 9520 |
| 2,6 | 0,4 9534 | 9547 | 9560 | 9573 | 9585 | 9598 | 9609 | 9621 | 9632 | 9643 |
| 2,7 | 0,4 9653 | 9664 | 9674 | 9683 | 9693 | 9702 | 9711 | 9720 | 9728 | 9736 |
| 2,8 | 0,4 9744 | 9752 | 9760 | 9767 | 9774 | 9781 | 9788 | 9795 | 9801 | 9807 |
| 2,9 | 0,4 9813 | 9819 | 9825 | 9831 | 9836 | 9841 | 9846 | 9851 | 9856 | 9861 |
| 3, | 0,49 8650 | 9032 | 9313 | 9517 | 9663 | 9767 | 9841 | 9892 | 9928 | 9952 |
| 4, | 0,5 -32 ⁻⁸ | -21 ⁻⁶ | -13 ⁻⁵ | -85 ⁻⁴ | -54 ⁻³ | -34 ⁻² | -21 ⁻¹ | -13 ⁻¹ | -79 ⁻² | -48 ⁻³ |

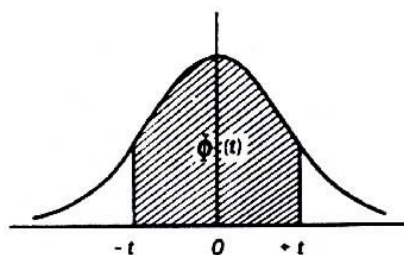
| t | 5 | 6 | 7 | 8 | 9 | ∞ |
|-----------------------|-----------------------|--------------------|--------------------|--------------------|--------------------|----------|
| $\frac{1}{2} \Phi(t)$ | 0,5 -29 ⁻⁸ | -10 ⁻¹⁰ | -13 ⁻¹² | -62 ⁻¹⁷ | -11 ⁻²⁰ | 0,5 |

Tab. V. Funkcia $\Phi(t) = 2G(t) =$

$$= \frac{1}{\sqrt{2\pi}} \int_{-t}^t e^{-\frac{t^2}{2}} dt \text{ (normálne rozdelenie),}$$

$$t = \frac{\varepsilon}{\sigma} \text{ alebo } t = \frac{v}{\sigma_v}.$$

Funkcia dáva pravdepodobnosť výskytu chyby (opravy) v medziach $\pm t$ -násobku strednej kvadratickej chyby (opravy). Označenia n^x znamenajú $n \cdot 10^x$.



| t | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|-----|-----------|------|------|------|------|------|------|------|------|------|
| 0, | 0, 0000 | 0797 | 1585 | 2358 | 3108 | 3829 | 4515 | 5161 | 5763 | 6319 |
| 1, | 0, 6827 | 7287 | 7699 | 8064 | 8335 | 8664 | 8904 | 9109 | 9281 | 9426 |
| 2, | 0, 9545 | 9643 | 9722 | 9786 | 9836 | 9876 | 9907 | 9931 | 9949 | 9963 |
| 3, | 0,9 9730 | 9806 | 9863 | 9903 | 9933 | 9953 | 9968 | 9978 | 9986 | 9990 |
| 4, | 0,99 9937 | 9959 | 9973 | 9983 | 9989 | 9993 | 9996 | 9997 | 9998 | 9999 |

| t | 5 | 6 | 7 | 8 | 9 | ∞ |
|-----------|---------------------|--------------------|--------------------|--------------------|--------------------|----------|
| $\Phi(t)$ | 1 —57 ⁻⁸ | —20 ⁻¹⁰ | —26 ⁻¹³ | —13 ⁻¹⁶ | —23 ⁻²⁰ | 1 |