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Z Zakładu Statystyki Matematycznej Wydziału Matematyczno-Przyrodniczego UMCS
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An extended table of Student's t -distribution for one-sided and two-sided tests of significance at 5 and 1% probability levels.

Rozszerzona tablica rozkładu t Student'a dla sprawdzianów jedno- i obustronnych przy 5%-owym i 1%-owym ryzykach błędu.

Расширенная таблица распределения функций Студента к 5%-ому и 1%-ому уровню вероятности при двухсторонних и односторонних статистических критериях.

When number of degrees of freedom for Student's t -distribution exceeds 30, the approximation to normal deviate is not always accurate enough to be used safely in tests of significance. An extended table of t -distribution covering even numbers of degrees of freedom from 30 to 100 has been prepared by Elizabeth M. Baldwin¹⁾ for the 5 and 1% probability levels in two tails. The table does well for two-sided test of significance, but leaves a gap unfilled when one-sided tests are involved. To fill this gap, an extended table has been prepared covering the 10 and 2% probability levels in two tails, so that the whole table can be used for 5 and 1% probability levels of either two-sided or one-sided tests. The corresponding entries may have occasional errors in the third decimal place.

Streszczenie

Tablica rozkładu funkcji t Student'a, przygotowana przez E. M. Baldwin dla 5%-owego i 1%-owego ryzyków błędu przy sprawdzianach obustronnych, została rozszerzona do 5%-owego i 1%-owego ryzyków błędu przy sprawdzianach obu- i jednostronnych.

¹⁾ Baldwin, E. M. Table of Percentage Points of the t -distribution. *Biometrika*, XXXIII, part IV, 1946.

Резюме

Таблица распределения функции t Стюдента приготовлена Э. М. Бальвиной для 5%-го и 1%-го уровня вероятности в двух хвостах кривой здесь расширена к 10%-му и 2%-му уровню вероятности в двух хвостах, т. е. к 5%-му и 1%-му уровню вероятности при двухсторонних и односторонних статистических критериях.



AN EXTENDED TABLE OF STUDENT'S t -DISTRIBUTION FOR
 ONESIDED AND TWO-SIDED TESTS OF SIGNIFICANCE AT 5%
 AND 1% PROBABILITY LEVELS

Rozszerzona tablica rozkładu t Student'a dla sprawdzianów jedno-
 i obustronnych przy 5%-owym i 1%-owym ryzykach błędu.

d. f. liczba stopni swobody	t_p				d. f. liczba stopni swobody	t_p			
	$P = 0.10$	$P = 0.05$	$P = 0.02$	$P = 0.01$		$P = 0.10$	$P = 0.05$	$P = 0.02$	$P = 0.01$
1	6.314	12.706	31.821	63.654	40	1.684	2.021	2.423	2.704
2	2.920	4.303	6.965	9.925	42	1.682	2.018	2.419	2.698
3	2.353	3.182	4.541	5.841	44	1.680	2.015	2.415	2.692
4	2.132	2.776	3.747	4.604	46	1.679	2.013	2.412	2.687
5	2.015	2.571	3.365	4.032	48	1.677	2.010	2.408	2.682
6	1.943	2.447	3.143	3.707	50	1.676	2.008	2.405	2.678
7	1.895	2.365	2.998	3.499	52	1.675	2.006	2.402	2.674
8	1.860	2.306	2.896	3.355	54	1.674	2.005	2.398	2.670
9	1.833	2.262	2.821	3.250	56	1.673	2.003	2.395	2.667
10	1.812	2.228	2.764	3.169	58	1.672	2.001	2.392	2.663
11	1.796	2.201	2.718	3.106	60	1.671	2.000	2.390	2.660
12	1.782	2.179	2.681	3.055	62	1.670	1.999	2.389	2.658
13	1.771	2.160	2.650	3.012	64	1.669	1.998	2.387	2.655
14	1.761	2.145	2.624	2.977	66	1.669	1.996	2.386	2.652
15	1.753	2.131	2.602	2.947	68	1.668	1.995	2.384	2.650
16	1.746	2.120	2.583	2.921	70	1.668	1.994	2.383	2.648
17	1.740	2.110	2.567	2.898	72	1.667	1.993	2.381	2.646
18	1.734	2.101	2.552	2.878	74	1.667	1.992	2.380	2.644
19	1.729	2.093	2.539	2.861	76	1.666	1.991	2.379	2.642
20	1.725	2.086	2.528	2.845	78	1.666	1.990	2.378	2.640
21	1.721	2.080	2.518	2.831	80	1.665	1.989	2.376	2.639
22	1.717	2.074	2.508	2.819	82	1.665	1.988	2.375	2.637
23	1.714	2.069	2.500	2.807	84	1.664	1.987	2.374	2.635
24	1.711	2.064	2.492	2.797	86	1.664	1.987	2.372	2.634
25	1.708	2.060	2.485	2.787	88	1.663	1.986	2.371	2.632
26	1.706	2.056	2.479	2.779	90	1.663	1.986	2.370	2.631
27	1.703	2.052	2.473	2.771	92	1.662	1.986	2.369	2.630
28	1.701	2.048	2.467	2.763	94	1.662	1.985	2.368	2.629
29	1.699	2.045	2.462	2.756	96	1.661	1.984	2.367	2.627
30	1.697	2.042	2.457	2.750	98	1.661	1.983	2.366	2.626
32	1.693	2.037	2.448	2.738	100	1.661	1.982	2.364	2.625
34	1.690	2.032	2.441	2.728	120	1.658	1.980	2.358	2.617
36	1.688	2.028	2.434	2.720	∞	1.645	1.960	2.326	2.576
38	1.686	2.024	2.428	2.712					

