L. N. Bolshev and V. N. Smirnov, Mathematical Statistical Tables (in Russian).
V. A. Steklova Mathematical Institute, Academy of Sciences, Moscow, USSR, 1965. 464 pp. + partial page of errata. 3 rub. 50 kop.

Review by D. B. OWEN

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It will be convenient to compare and contrast the volume under review (abbreviated MST) with *Biometrika Tables for Statisticians* (abbreviated BTS), Volume I, by E. S. Pearson and H. O. Hartley. It will be assumed that the reader is already familiar with the BTS volume. MST contains 170 pages of introduction, including the table of contents and the references. The pages in MST are roughly the same size as those in BTS. BTS has 112 pages of introduction, including the table of contents and the references. There is no index in MST such as occupies the last two pages of BTS. There are 136 pages of tables in BTS vs. 292 pages of tables in MST.

The tables of Section 1 of MST are of the normal cumulative, direct and inverse, the density and its derivatives. These tables are given to six decimal places, but it appears that the last place may be in error. For example, the reviewer chose the entry for the normal density at x=0.1 which is given as 0.396952 whereas the correct value is 0.396953. At x=0.18 MST gives 0.392532 for the density whereas 0.392531 is the correct value. These were found by choosing a few points at random to check. There are undoubtedly other errors in this table.

Section 2 of MST is devoted to chi-square, direct and inverse. Again making a random check one finds on p. 228, under Q = 99.5%:

n	8	9	10	11	12	13	14
MST value	1.443	1.537	2.651	2.306	3.470	3.565	4.570
Correct value	1.344	1.735	2.156	2.603	3.074	3.565	4.07
n	15	16	17	18	19	20	21
MST value	4.106	5.241	5.796	6.562	6.448	7.434	8.430
Correct value	4.601	5.142	5.697	6.265	6.844	7.434	8.034
n	22	23	24	25	26		
MST value	8.346	9.062	9.688	10.025	11.061		
Correct value	8.643	9.260	9.886	10.520	11.160		

Entries before and after those above are correct. Again, this was a random check and other discrepancies may occur.