A step toward an asymptotic expansion for the Cramér-von Mises statistic.


This is a continuation of a paper by the first author [Acta Sci. Math. (Szeged) 38 (1976), no. 1–2, 45–67; MR0420942 (54 #8952)]. A new form is obtained for the remainder term in the previously published but still unproved asymptotic expansion of the distribution function of the Cramér-von Mises statistic for testing goodness-of-fit. A recurrence formula for the volume of the intersection of an \( n \)-dimensional simplex and an \( n \)-dimensional ball is also given.

{For the entire collection see MR0561875 (80m:60002)}

Reviewed by M. Knott