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

Analytic function methods in probability theory (Proc. Colloq. Methods of Complex Anal. in the Theory of Probab. and Statist., Kossuth L. Univ. Debrecen, Debrecen, 1977), pp. 53–65, Colloq. Math. Soc. János Bolyai, 21, North-Holland, Amsterdam-New York, 1979.

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*

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