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William B. Jones* (wjones@euclid.colorado.edu), Department of Mathematics, University of Colorado, Boulder, CO 80309-0395. *Continued Fraction Handbook Project.*

The talk describes a writing project for a Handbook of Continued Fractions that is expected to be completed during the calendar year 2006. The handbook, to be published by Kluwer Academic Publishers B. V., is devoted to the analytic theory of continued fractions with emphasis on the representation and computation of special functions. The handbook consists of three main parts: 1. Basic Theory, 2. Computation Methods and 3. Applications to Special Functions. An extensive bibliography is included with references given for proofs of principal results. The talk summarizes material presented in each of the three sections. Work on the handbook is a joint effort by six co-authors: Annie Cuyt, Brigitte Verdonk, Vigdis Petersen, Haakon Waadeland, Catherine Bonan-Hamada and William B. Jones. (Received September 15, 2005)