

Olver, Frank W. J.

Asymptotics and special functions. Reprint. (English) [Zbl 0982.41018](#)
AKP Classics. Wellesley, MA: A K Peters. xviii, 572 p. (1997).

The first edition of this book has been published by Academic Press (1974, same title). There is a one-page new preface for the A K Peters edition in which new books and developments since the first edition of the book are mentioned. In the new edition a few minor errors have been corrected. For a review of the first edition see [Zbl 0303.41035](#); a review of the Russian translation is given in [Zbl 0712.41006](#). For a review by Jet Wimp, see SIAM Review, Vol. 17, No. 3, 569 – 575, 1975. The book has become a classical reference and standard work on asymptotics, in particular on rigorous asymptotics for the solutions of linear second order differential equations, which area is closely related with the classical functions of mathematical physics.

MSC:

- [41A60](#) Asymptotic approximations, asymptotic expansions (steepest descent, etc.)
- [41-02](#) Research exposition (monographs, survey articles) pertaining to approximations and expansions
- [34E05](#) Asymptotic expansions of solutions to ordinary differential equations
- [33-02](#) Research exposition (monographs, survey articles) pertaining to special functions

Cited in **1** Review
Cited in **181** Documents