1056-06-612        **Joris van der Hoeven\*** (`vdhoeven@lix.polytechnique.fr`), LIX, Ecole Polytechnique, 91128 Palaiseau, France. *Transseries, a survey.*

A transseries is a formal object built up from the reals and an infinitely large indeterminate x using exponentiation, logarithm and infinite summation. Transseries naturally come up in various areas of mathematics: analysis, model theory, computer algebra. In my talk, I will give a survey of the subject and its connection to surreal numbers. (Received September 14, 2009)