1056-11-1400   **Tom Osler** (`osler@rowan.edu`), 201 Mullica Hill Road, Glassboro, NJ 08028, and **Abdul Hassen*** (`hassen@rowan.edu`), 201 Mullica Hill Rd, Glassboro, NJ 08080. *On Generalization of Lambert Series.*

The classical Lamberts series makes it possible to generate many remarkable transformations of series. These Lamberts series are all constructed from the function $z/(1-z)$. In this paper we show how to generalize these series by using an arbitrary function in place of $z/(1-z)$. Series transformations exhibiting beautiful symmetry are obtained. In addition, a double contour integral is found which represents these series. Our method is compared to a general procedure introduced by MacMahon. (Received September 21, 2009)

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