

1077-VC-2178      **Thomas Koshy** and **Zhenguang Gao\*** (zgao@framingham.edu). *Convergences of Catalan Series.*

Using Catalan properties and general solutions to first-order differential equations, we determine the convergence of the Catalan series  $\sum_{n \geq 0} \frac{1}{C_n}$  and evaluate the sum. We also evaluate the sum  $\sum_{n \geq 0} \frac{1}{C_n}$ , where  $n$  is odd or even. (Received September 21, 2011)