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C Edward Sandifer* (esandifer@earthlink.net), Department of Mathematics, Western Connecticut State University, Danbury, CT. *The Transition from Euler to Cauchy: The Case of Infinite Products.*

Euler and Cauchy both treat infinite products, Euler in the *Introductio in analysin infinitorum* of 1748 and Cauchy in the *Cours d'analyse* of 1821. Their treatments are quite different, and those differences reflect the extensive transitions that had occurred in mathematics during the intervening decades. We compare and contrast these treatments, and use them to illuminate how the nature of mathematics had changed. (Received August 14, 2008)