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A Bathi Kasturiarachi* (akasturi@kent.edu), Department of Mathematics, Kent State University at Stark, North Canton, OH 44720. *The Theory of Fractional Derivatives*.

In this paper we will outline the development of fractional derivatives. By studying fractional integrals and fractional derivatives we will examine the theory of fractional calculus. Historical notes, some new results, and applications will be presented. (Received September 24, 2012)