1026-01-98   **Lawrence D'Antonio*** (`ldant@ramapo.edu`), 24 Meadoway, Dobbs Ferry, NY 10522. *Euler on the Buckling of Columns.*

Euler was the first to provide a mathematical analysis of the conditions under which a column will buckle. This includes the problems of how heavy a load can be placed on top of a column before it buckles and how tall a column of given cross-section and density can be before it buckles. We will discuss Euler's overall work in elasticity, the computation of the critical load for a column, the so-called Euler paradox, and subsequent work by Lagrange and Clausen. (Received February 18, 2007)