1046-54-305   **Kim J Huerter*** (`khuerter@math.uiowa.edu`), 608 1/2 Ronalds St., Iowa City, IA 52245.
Non-Uniform Thickness of Smooth Knots.

O. Gonzalez and J. Maddocks describes the uniform thickness of a smooth knot by taking the minimal radius of a circumcircle defined by three distinct points along the curve. A formula for the non-uniform thickness of a smooth knot is a generalization of this formula that allows for a non-uniform distribution of forces along the knot. (Received August 25, 2008)