1016-49-303 **Tadeusz Iwaniec*** (`tiwaniec@syr.edu`), Syracuse University, Department of Mathematics, 215 Carnegie Hall, Syracuse, NY 13244, and **Jani Onninen**. *On Mappings of Finite Energy.*

This theory features new classes of deformations of domains in R^n. It is largely about homeomorphisms with smallest n-harmonic energy. There are several natural ways that n-harmonic deformations arise in analysis. One of them is the variational approach to the Geometric Function Theory, the other is the mathematical model of nonlinear elasticity. (Received February 14, 2006)