1067-49-858Kyle W. Fey\* (s-kfey2@math.unl.edu), 4151 Normal Blvd. Apt. 13, Lincoln, NE 68506, and<br/>Mikil Foss. Morrey regularity for almost minimizers of nonconvex functionals with p(x) growth.I will present global Morrey regularity results for minimizers of functionals with the form

$$u\mapsto \int_{\Omega}f(x,u(x),\nabla u(x))dx.$$

For each x and u, the function  $F \mapsto f(x, u, F)$  is assumed to behave like  $F \mapsto |F|^{p(x)}$  whenever |F| is sufficiently large. These variational problems arise in certain models for electro-rheological fluids and thermistors. The regularity results are valid up to the boundary provided that the boundary data is sufficiently smooth. (Received September 15, 2010)