1023-65-1893   **Lijian Jiang*** (`ljmath@tamu.edu`), Mathematical Department, College Station, TX 77843. *Global multiscale finite element methods for elliptic equations.*

We review some multiscale finite element methods for elliptic equations with high oscillating coefficients. Some global multiscale finite element methods are proposed to improve accuracy. We also give some applications for these methods in heterogeneous media. (Received September 27, 2006)