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B T Nadiga* (balu@lanl.gov), MS-B296, Los Alamos, NM 87545. *On the Regularization Approach to Modeling Unresolved Scales in Two-Dimensional and Quasi Two-Dimensional Turbulence.*

Motivation, derivation, and application of the regularization approach to modeling unresolved scales in two-dimensional and quasi two-dimensional turbulence will be presented. Additionally we show equivalence of this approach to a more traditional approach in two dimensions; the equivalence breaks down in three dimensions. (very very applied) (Received February 19, 2010)