

104. Zvi Artstein, **A Young measures approach to averaging**. In Differential Equations, Chaos and Variational Problems, V. Staicu Ed., Progress in Nonlinear Differential Equations and Their Applications, Vol. 75, 15-28, Birkhäuser Verlag, Basel, 2007

**Abstract.** Employing a fast time scale in the Averaging Method results in a limit dynamics driven by a Young measure. The rate of convergence to the limit induces quantitative estimates for the averaging. Advantages that can be drawn from the Young measures approach, in particular, allowing time-varying averages, are displayed along with a connection to singularly perturbed systems.

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