

**Approximate Deconvolution Models Of  
Turbulence: Analysis, Phenomenology And  
Numerical Analysis (Lecture Notes In  
Mathematics)**

**By William J. Layton; Leo G. Rebholz**



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Leray regularization model that analysis of the resulting numerical approximate deconvolution in fluid models to increase

<http://www.sciencedirect.com/science/article/pii/S0045782513000352>

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of degrees of freedom in a simulation and represents accurately the large structures in the ow. In [20] we considered the problem of modeling the motion of large

[http://www.math.missouri.edu/~ayl/ADM\\_MHD.pdf](http://www.math.missouri.edu/~ayl/ADM_MHD.pdf)

Chebyshev Optimized Approximate Deconvolution Models of Turbulence William Layton and Iuliana Stanculescu

Abstract If the Navier-Stokes equations are averaged

[http://www.mathematics.pitt.edu/sites/default/files/research-pdfs/try\\_param.pdf](http://www.mathematics.pitt.edu/sites/default/files/research-pdfs/try_param.pdf)

This report presents the mathematical foundation of approximate deconvolution LES models together with the Approximate Deconvolution Models of Turbulence?}

<http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.551.9752>

Title: A similarity theory of approximate deconvolution models of turbulence: Authors: Layton, William; Neda, Monika: Publication: Journal of Mathematical Analysis

<http://adsabs.harvard.edu/abs/2007JMAA..333..416L>

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<http://avxsearch.se/?q=%20ADME%20Problems>

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<http://www.tandfonline.com/doi/abs/10.1080/14685240600749977>

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Rebholz, Approximate deconvolution models of turbulence approximate, in Analysis, Phenomenology and Numerical Analysis, Springer Lecture Notes J. Layton

<http://www.hindawi.com/journals/ana/2012/162539/ref/>

We show analytically by using the 5/3 Kolmogorov's law that the time-averaged consistency error of the Nth approximate deconvolution model converges to

<http://www.tandfonline.com/doi/full/10.1080/14685240600749977>

satisfies . We prove in Section 2 that Taylor/eddy solutions of the NSE are also exact solutions of the general Approximate Deconvolution Model (ADM) of turbulence

<http://www.sciencedirect.com/science/article/pii/S0893965910002624>

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