On the free boundary problem for the Oldroyd-B Model in the maximal L-p-L-q regularity class

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Abstract	In the present work, we prove the local well-posedness of non-Newtonian compressible viscous barotropic fluid flow of Oldroyd-B type with free surface in a bounded domain of N-dimensional Euclidean space (N >= 2). The key step is to prove the maximal L-p-L-q regularity theorem for the linearized equation with the help of the R-bounded solution operators for the corresponding resolvent problem and Weis's operator valued Fourier multiplier theorem. (C) 2016 Elsevier Ltd. All rights reserved.
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